I'm not a bot

If you've ever wondered about the best way to learn SQL, you're in the right place. Whether you're a complete beginner or an experienced professional looking to upskill, this comprehensive guide will show you the way. In today's data-driven world, you can think of data as a treasure chest full of gold. And SQL (Structured Query Language) is your personal key to unlocking it. SQL is a potent tool that allows you to communicate with databases, enabling you to extract, shape, and make sense of data.Are you just starting your career path? Or maybe youre a seasoned professional aiming to broaden your skill set. In either case, mastering SQL can be a game changer. It can open doors to new opportunities and give your career a significant boost.If you're new to SQL or have no IT experience, don't worry. SQL is a user-friendly language that's designed to be intuitive and straightforward. In fact, many people have successfully learned SQL on their own, starting from scratch. And the best part? You don't need any special software or expensive textbooks to get started. All you need is a web browser, an internet connection, and a willingness to learn.One of the best ways to learn SQL is through interactive online courses. For instance, LearnSQL.com offers a course on SQL Basics that's perfect for beginners. This awesome online interactive SQL course teaches you the basics of SQL querying, including how to retrieve data from an SQL database and build simple reports. It includes 129 interactive exercises that allow you to practice what you learn, ensuring that you gain practical experience as you progress through the course. What is SQL?SQL is a standardized programming language that serves as the backbone for managing and manipulating databases. A database is a software product designed to hold large amounts of data in a structured way. It can hold millions of records, which isn't even possible with a spreadsheet.SQL allows you to perform a variety of tasks, such as: Creating databases and tables. Changing tables and columns in a database. Adding, updating, or deleting data. Retrieving data based on specific criteria.A key power of this language is that it allows you to create advanced and in-depth reports. With the right queries, you can pull out specific information from a database to create the listings and comparisons you need. In today's world, such reports are often the basis for strategic decisions. If you want to know more about this, check out our SQL Reporting track.SQL is used by a wide range of professionals, from data analysts and data scientists to software developers and IT administrators. It's a language that transcends industries and job roles, making it an essential skill in today's data-driven world.The history of SQL is a fascinating journey that began in the 1970s. If you're interested in learning more, read The History of SQL How It All Began.SQL is not just a relic of the past, though. It continues to evolve and adapt to the needs of the modern world. Over the years, this database language has become an industry standard, recognized and used by all major organizations. It's the basic language for working with databases, used daily by market giants such as Google and Facebook for a variety of processes. With the rise of Big Data, companies across all industries are looking for professionals who can analyze and interpret data to make informed business decisions. SQL is one of the most sought-after skills in the job market, so learning it can open up a wide range of opportunities. Its currently one of the fastest-growing branches of the IT industry, making SQL professionals in high demand.According to Glassdoor, the average salary for SQL jobs in the United States is around $84,000 annually, with some roles paying over $100,000 per year. Pretty sweet, right?But the most important question is Is learning SQL enough to get a job? While SQL is a highly sought-after skill, most jobs will require additional skills. For instance, data analysts are often expected to know other tools like Python, R, and Excel. However, knowing SQL can significantly increase your job prospects and salary potential. Can a non-IT person learn SQL? Absolutely! SQL is a user-friendly language that doesn't require a background in IT or programming. It's designed to be intuitive and straightforward, making it accessible to professionals from all fields.Am I too old to learn SQL? No, you're never too old to learn something new. Whether you're looking to change careers or enhance your current skillset, learning SQL can provide you with valuable opportunities. Learning SQL: Fast Track and Self-LearningWhen it comes to convenience and flexibility, finding the best way to learn SQL online can offer you the ability to learn at your own pace and in your own space. Interactive online courses, in particular, are the fastest way to learn SQL. But let's take a moment to compare this method to other forms of learning. Books About SQLWhile SQL books can be a great resource, they lack the interactive element that online courses offer. You can read about SQL concepts but without the opportunity to practice and get feedback, it can be difficult to fully grasp these concepts and apply them. Plus, books can quickly become outdated as new versions of SQL are released. SQL YouTube TutorialsYouTube videos and other free online resources can also be helpful, but they often lack structure and depth. You might find a great video on a specific SQL concept, but piecing together a comprehensive understanding of SQL from disparate sources can be a challenge.If you insist on watching YouTube, here's what you should check out: SQL and Database BootcampsBootcamps, on the other hand, offer a more intensive learning experience. They can be a great way to learn SQL quickly, but they also require a significant time commitment and can be quite expensive. Plus, the pace of bootcamps can be overwhelming for beginners. SQL Online CourseIn contrast, interactive online courses like those offered by LearnSQL.com provide a balanced approach to learning SQL. They offer the structure and depth of a bootcamp, up-to-date content, and the flexibility of online videos. You can learn at your own pace, practice as much as you need, and have access to a wealth of resources and support. This makes them the fastest and most effective way to learn SQL.Let's take a closer look at what such an SQL course should look like.First, courses are easiest when theyre 100% online. Then you don't have to install anything on your device or configure anything. Everything happens in your browser; all you need is an internet connection.An interactive online course (like those on LearnSQL.com) gives you the opportunity to write real SQL queries and see them run. In each exercise you have an online console in which you practice what you learn in the exercise - i.e. you immediately practice writing real code that will help you later in your real-world situations. It couldn't be better or easier. Interactive SQL courses on LearnSQL.com are prepared for all skill levels. Both a complete rookie and an experienced database expert will find something for themselves. The Best SQL Courses! from LearnSQL.com on Vimeo. Here are some ideal courses for beginners: If you don't know which one to choose, check out What Is a SQL Dialect, and Which One Should You Learn? For example, if you're specifically interested in Microsoft's database management system, finding the best way to learn SQL Server will be crucial for you. You can also see our article on the Top 6 Online SQL Courses for Beginners.And here you have some of the best courses for more advanced users: Can I learn SQL on my own? Yes, you can. With the wealth of resources available online including tutorials, online courses, and forums you can learn SQL at your own pace. However, it's important to practice what you learn through exercises and real-world projects.Can I learn SQL in 3, 4, or 7 days? While it's possible to learn the basics of SQL in a few days, becoming proficient in SQL takes time and practice. The more you practice, the better you'll get. Fun fact: If you are in a hurry, you can Learn SQL in 10 Minutes! Why is SQL hard to learn? This is a question often asked by beginners who are just starting their journey with SQL. While SQL is generally considered easier to learn than other programming languages, it can be challenging for beginners. This is often due to the abstract nature of databases and the need to think in a set-based way. However, with practice and persistence, these challenges can be overcome. SQL is designed to be intuitive and straightforward, making it accessible to professionals from all fields. Its syntax is logical and easy to understand, which makes it a great starting point for anyone new to programming or data analysis. In fact, SQL is often the first language taught in many data analysis and computer science programs because of its simplicity and practicality.One of the reasons why beginners might find SQL hard to learn is because they're not sure how to approach it. Learning SQL, like any new skill, requires a structured approach and consistent practice. This is where online resources like our SQL From A to Z track can be incredibly helpful. This track offers a well-planned learning path and plenty of opportunities to practice what you've learned. It is a comprehensive learning journey that starts with the basics of SQL, guiding you through creating simple queries and retrieving data from an SQL database.As you progress through the track's seven online SQL courses, you'll learn how to process various types of data with SQL's most-used functions. You'll also master the art of writing complex SQL queries using aggregation, subqueries, and set operations, and learn how to add, modify, and delete data from a database using SQL. Don't be afraid that you don't understand these concepts yet. With our help, you will soon be able to use them freely.But this track isn't just about teaching you concepts; it's about providing you with hands-on practice. You'll work with a real code editor and real data sets; youll tackle real-life exercises. This practical approach is one of the reasons why the SQL From A to Z track is the most popular track on LearnSQL.com.After completing each of our courses, you will receive a certificate that you can show to your boss or attach to your LinkedIn profile for recruiters to see. Here are some articles that will help you avoid roadblocks while learning and practicing SQL: Another thing that makes SQL beginner-friendly is its practicality. Unlike some programming languages that require you to learn a lot of theory before you can start building anything useful, SQL lets you start working with real data almost immediately. This makes the learning process much more engaging and rewarding. Plus, as you progress in your learning journey, you'll find that the concepts you struggled with initially will start to make more sense.Absolutely anyone can learn SQL, and I'm living proof of that fact. My journey began as a journalist, far removed from the world of IT. Yet, I found myself drawn to the realm of data, and that's when I discovered SQL. I took the plunge and enrolled in the SQL Basics course at LearnSQL.com. Despite having no prior IT experience, I was able to grasp the concepts and start writing SQL queries. Now, I use SQL in my daily work and it has opened up a whole new world of opportunities for me. If I a humanities guy turned SQL enthusiast could do it, so can you! You can read my story here. Final Verdict: Whats the Best Way to Learn SQL?So, what is the best way to learn SQL? I hope I convinced you that the answer is through interactive online courses. This approach allows you to learn at your own pace, practice with real-world examples, and get instant feedback. It's a flexible and effective way to master SQL, whether you're a beginner or an experienced professional looking to upskill.Learning SQL is more than just a valuable investment in your career. It's a strategic move that can open up a wide range of opportunities and give you a competitive edge in the job market. Employees that know SQL tend to earn more than their counterparts without those skills. This is because many organizations are seeking specialists with database knowledge to stay ahead of the competition and fine-tune their business strategy.Learning SQL is easy! With a bit of practice, you can quickly get the hang of it. And if you're really serious about learning and becoming an expert, you should consider our All Forever Package, which includes all of our current and future courses.So, why wait? There's no better time than now to start your SQL learning journey. Make a smart career move and enhance your professional life regardless of your field. Start your SQL learning journey today with LearnSQL.com and unlock the next level of opportunities.image_credit udemyHello guys, if you want to learn SQL in depth and are looking for the best free resources like websites, books, and online courses, you have come to the right place. Earlier, I have shared the best free SQL courses and books, and in this article, I will share the best websites and places where you can learn SQL online for me.SQL is one of the most important skills for any programmer, be it a Java, C++, Python, JavaScript, or Ruby developer. Almost 95% of the Java applications use a relational database in their back-end, and almost all web applications use the database.In recent years, one of the most common ways to learn any programming skill is online, at your comfort of the office or home, and SQL is no different. Learning SQL online has another advantage of a quick head start because you dont need to install a database and create tables to write some SELECT queries.The installation and setup are definitely a tough part for beginners, and I have gone through that pain every time I have to learn a new database.Anyway, once you start writing queries and seeing the result, you feel that confidence is needed to go to the next level, which involves downloading and installing a free copy of popular databases like MySQL, SQL Server, PostgreSQL, or Oracle in your machine. From my experience, I can say that SQL is easy to learn but difficult to master. You can start writing SQL queries in about an hour or so, but when it comes to writing queries to solve real-time requirements or reporting purposes, its not that easy. Practicing SQL online on sites like SQLZoo or SQLFiddle will further help you keep yourself up-to-date and improve your SQL skills, which is the main challenge for any SQL developer or programmer.Here is my collection of the top five websites, which I found good to learn and master SQL. There are many websites, blogs, and tutorials out there on the internet, but at the same time, its difficult to find excellent resources. Since I have a passion for collecting good resources for learning technology, I always bookmark my great discoveries. These websites are some of those, while some are quite common, like Udemy and Coursera, others like SQLZoo and SQLBolt are real gems.1. UdemyThis website has the biggest collection of online courses, both free and paid. Since online courses are a great way to learn a new technology or programming language, you can also learn the basics of SQL and Databases. Finding the right course is a tough job there as well because there are literally so many courses, and you are not sure which instructor is best and which course meets your requirements, so you need to watch previews, read reviews, and decide based upon that. If you ask me, The Complete SQL Bootcamp by Josh Portilla is the best course to learn SQL. It has, on average, 4.5 ratings from more than 127,000 students, which are really impressive.The only thing is that its not free, but you can get it really cheap, like in less than $10 on Udemys flash sale, which happens all the time. The course also provides certificates to indicate that you have completed the SQL training, adding to your resume or Linkedin profile.As I have said, Udemy also has many free courses to learn SQL and Database, and the following are my recommendations to start with.These are some excellent free courses you can take on Udemy to learn SQL and Database fundamentals, querying, etc. Though you need to be careful that these courses may not remain free all the time and may be converted into paid courses once the instructor reaches their promotional targets. But, once you join, it will be free to you all the time. So, its better to join them before they become paid courses and learn at a time convenient to you.Coursera is another place where you can learn in-demand tech skills for free. Many people dont know, but Coursera has many free courses, and most of their paid courses are also free-to-audit. They are the best website to learn Data Science and got several useful courses to learn essential Data Science skills like SQL.Here are some of the Coursera courses you can join to learn SQL for FREE:SQL for Data Science the most popular SQL course on Coursera, and more than 330K people have already joined this course.Introduction to Structured Query Language (SQL) This is another great SQL course on Coursera which the University of Michigan offers. It has on average 4.8 ratings, and more than 120K people have joined it.Database Design and Basic SQL in PostgreSQL This one is for people who want to learn Database design and SQL in PostgreSQL, a popular SQL vendor. Its a relatively newer course but has, on average, 4.8 ratings.Intermediate SQL This is another awesome PostgreSQL course from Coursera, which you can join for FREE. Its more for intermediate developers who are familiar with PostgreSQL. For example, you can join this after going through a previous course.Overall, these are some of the best SQL courses from Coursera which you can take to learn this useful tech skill. Most of them are either free or free-to-audit.When it comes to joining this course, you have two options, you can either join this course alone which costs around $39 per month for specialization, you can also join Coursera Plus for $59 per month, a subscription plan from Coursera which gives you unlimited access to their most popular courses, specialization, professional certificate, and guided projects.SQLZoo is one of the best, and I guess, the most popular website for learning SQL online. It provides both tutorials and exercises, and thats why it is equally useful for someone just starting with SQL and programmers who know SQL but want some good practice to really master it. The SQLZoo provides easy-to-understand tutorials and interactive examples to write queries and see results right in your browser. You will find SQL interactive tutorials, examples, and exercises on this website. It covers most SQL clauses like SELECT clause to read data, CREATE to make a new database, ALTER to change the database, and DELETE to remove data and tables.It also covers advanced concepts like GROUP BY, Indexes, Views, SQL Joins, Sub-queries, handling NULL values in SQL, etc. SQLZoo also has several SQL quizzes to test your knowledge. In short, this site is one of the best resources to learn and master SQL online, and its FREE. Every programmer who has an interest in SQL can benefit from this site.This is another great place or website to learn SQL for FREE. Codecademy was one of the first interactive websites I learned about, and since then, I have learned many key skills like Linux bash, SQL, Java, and JavaScript on Codecademy.Again most of their courses are free, but not all of them, and you need Codecademy PRO membership to access their premium courses.In this free SQL course, youll learn how to communicate with relational databases through SQL. Youll not only learn but practice with 4 projects how to manipulate data and build queries that communicate with more than one table.Here are things you will learn in this free SQL course on Codecademy:how to use SQL to access, create, and update data stored in a database.How to write complex queries by learning essential query keywords and functionalityHow to use powerful functions for performing complex database operations with ease.How to create and manipulate databases with multiple related tablesMore than 1.2 million people have joined this free SQL course, and you can join too.This is a free SQL course provided by Stanford University. This course contains good SQL video tutorials to explain both the basic and advanced SQL and Relational databases concepts. You can use this course in both registered and non-registered mode, though its better to get registered to save your progress. Its also a self-paced course so that you can learn at your own speed. This website also provides all course material for free, like SQL scripts, course slides, etc., which you can download from relevant sections. Given this course is from Stanford University, you can rest assured of quality.One of the best websites to learn computer science and programming online, Khan Academy also has a good SQL tutorial with the title Intro to SQL: Querying and managing databases. In this free SQL tutorial, youll learn how to use SQL to store, query, and manipulate data. SQL is a special-purpose programming language designed to manage data in a relational database and is used by many apps and organizations. I have used some tutorials from Khan Academy in the past, and this is one of them; its like a virtual classroom.A good companion of SQLZoo makes your study complete. You can also take help from some good SQL books like Head First SQL. If you are a beginner, the head first way is one of the best ways to learn SQL.FreeCodecamp is another useful place to learn tech skills. They have a website freecodecamp.org and a Youtube channel which is full of free but comprehensive courses and this is one of them.This SQL course has got more than 7 million views and I think it's Youtubes most popular free SQL course.The course is designed for beginners to SQL and database management systems and will introduce common database management topics.Throughout the course, you'll learn key SQL topics like schema design, basic C.R.U.D operations, aggregation, nested queries, joins, keys, and much more.You can watch this course right here or on youtube for FREE.SQLBolt is another good website to learn SQL with simple, interactive examples. It contains a series of interactive lessons and exercises designed to help you quickly learn SQL right in your browser. It contains 20 lessons from a basic SQL query to more advanced and confusing Join queries, aggregation, filtering, and dealing with nulls. It is one of the best resources to learn SQL for complete beginners. So if you are the one who wants to learn SQL or you know SQL but dont feel comfortable, then go and try out SQLBolts interactive SQL tutorials. SQLBolt also has SQL tasks after each lesson, which will force you to use the knowledge you have learned in the lesson.The quality of queries is good, easy to start with, and getting difficult afterward. If you are stuck while writing an SQL query to solve the task, you can even take help from their solution. I suggest you finish the task as soon as you finish the lessor and then do the task with some variation the next day.Many people dont know that Datacamp has an excellent SQL course which you can use to learn SQL for Data Science. The course is an excellent resource to master the basics of querying tables in relational databases such as MySQL, SQL Server, and PostgreSQL.This course teaches syntax in SQL shared by many types of databases, such as PostgreSQL, MySQL, SQL Server, and Oracle, and it will tell you everything you need to know to begin working with databases today!The first chapter, Filtering columns, is completely free. Youll learn about tables, columns, and rows in SQL, how to talk about them using database lingo, and how to begin an analysis using simple SQL commands to select and summarize columns from database tables.By joining this SQL course, you will learn important SQL skills by solving gamified problems for encouragement and learning. By the way, other chapters are not free, and you may need to buy a Datacamp subscription to access them. Nevertheless, a great resource for beginners, and I highly recommend this one.And, If you are someone like me who knows SQL but always looking to increase knowledge and loves to try out some good SQL queries, check out Joe Celkos SQL Puzzles and Answers, Second Edition; it is one of the excellent resources to learn and master SQL programming.Thats all about some of the best resources to learn SQL and Database concepts online for FREE. Though the Internet is full of free stuff, its hard to find a good resource. I still respect curated resources and have benefited a lot from them. Though nothing can substitute classroom training, a combination of books, blogs, video tutorials, and interactive websites can really help you get there.Some other FREE online resources for Programmers10 best SQL and Database Online Courses (best courses)The Complete DevOps RoadMap (roadmap)10 Free Courses to learn SQL Server Database (free courses)Website to Practice SQL queries online on any database using SQLFiddle (see here)2 Websites to Learn Coding Online in Java and Python (see here)Top 5 Websites to learn Java Coding for FREE (websites)5 Best Courses to learn MySQL Database for Beginners (courses)Top 5 Courses to learn PostgreSQL for beginners (courses)10 Free Books to Learn Java (check here)10 Free Courses to Learn Java Programming for Beginners (courses)5 Free Courses to Learn Spring and Spring Boot (courses)The Complete React JS RoadMap (roadmap)5 Free Courses to learn Database and SQL online (courses)Thanks for reading this article so far. If you like these websites to learn SQL online for FREE, please share them with your friends and colleagues. If you have any questions or feedback, then please drop a note. P. S. If you dont mind paying few bucks to learn a valuable skill like SQL which can pay for a long time then I also recommend you to check out An Introductory Guide to SQL course on Educative, an interactive, text-based website where you can practice SQL online on your browser without installing any database or setting up the table and test data.Do you want to learn SQL online? Where do you start? There are many choices on the internet, and it can be hard to decide. But dont worryI tested and compared three major platforms to help you find the best place to learn SQL online! E-learning is still on the rise. It gives us infinite possibilities of growing our professional careers without leaving our homes. And increasing our competencies is especially important now that the labor market has become dynamic and unstable. Thats why you may want to learn SQL online using an online learning platform. Its a great choice! Interactive online learning environments make learning SQL far more practical than standard courses. And additional resources make it even more fun and effective. The problem is that there are many platforms to choose from, and you probably are wondering which is the best site to learn SQL. Dont worry, Ill give you a hand. I tried out three major online platforms for learning SQL: LearnSQL.com, DataCamp, and Codecademy. Below, youll find my complete comparison covering aspects such as teaching methods, UX, learning resources, and pricing. Let's get started! Below, youll find a short summary of my comparison: AspectLearnSQL.comDataCampCodecademy SQL courses723410 LevelBasic and advancedBasic and advancedBasic MethodTextual explanations + write the codeVideos + fill in blank spacesTextual explanations + write the code UXIntuitive and simple + dark modeIntuitive and simple + semi-dark modeRather simple + semi-dark mode Platform focusSQLData scienceProgramming ResourcesArticles + cookbooks + cheat sheets and moreDataCamp CommunityPractice + Projects, blog, articles, forum LearnSQL.com LearnSQL.com only offers SQL courses so its the perfect place to go if you want a platform that is solely focused on SQL. Each course is written by experienced SQL professionals so you get high-quality content that is grounded in real-world applications. One of the best things about this platform is the emphasis on practical learning. While you are introduced to theoretical concepts, the courses are designed to get you hands-on. Youll work through a ton of real-world exercises that mimic the challenges youll face in the real world. This will not only help you understand the SQL syntax and functions but also give you the skills to tackle actual data tasks. By focusing on practice LearnSQL.com helps you build confidence and prepares you for data analysis and database management. Course Offering As Ive mentioned, LearnSQL.com only teaches SQL skills, but you can choose from a variety of courses. Theyre grouped into paths, tracks, and mini tracks. However, it doesnt prevent you from learning SQL with a single course. If youre a data analysis newbie or a basic-level programmer, youll benefit most from the Analytical Path. It teaches SQL querying and reporting for analyzing datasets and getting key insights from data. Its main track, SQL from A to Z, consists of seven courses designed for users learning SQL from scratch. Finishing this track takes approximately two to three weeks, and it lets you work with data independently. Do you want to see if data analysis is for you? Take a look at the SQL Basics courseitll help you learn the absolutely necessary fundamentals in approximately 10 hours. Then, you can decide if you want to dive deeper. All of the courses on this platform have three versions: Standard SQL, Microsoft Server SQL, MySQL, and PostgreSQL. These are different dialects of SQL (i.e., varieties used in different database management systems). Theyre mostly similar but differ in some built-in functions, naming conventions, and error messages. Its super useful that LearnSQL.com allows you to choose which version. Once you learn Microsoft Server SQL, its pretty annoying to switch to PostgreSQL. Most programming platforms offer just one of the dialects without referencing to the others. Other courses powered by LearnSQL.com cover practical topics such as generating SQL reports or analyzing revenue trends (especially useful for business professionals). Theres also a special course with only exercises called SQL Practice SetI strongly recommend you to take it once you finish learning SQL at the basic level. Programming is like a sport: you need training and practice to become a professional. The same goes for learning SQL and writing code. Currently, LearnSQL.com offers 20 learning tracks and over 70 individual courses, but their developers are continually working on adding more courses. I recommend visiting their page regularly to stay up-to-date. Teaching Method Learning SQL with this platform is very practical because all courses feature loads of exercises. Theyre based on real-world examples, mainly from the business field (so youll work with revenue spreadsheets, HR databases, and so on). If youre seeking an analytical job within business operations or want to learn SQL online to power up your business skills, youll find it very useful. The courses on LearnSQL.com include a number of lessons followed by either a quiz or a summary, serving as a quick recap of what has been learned. New concepts are explained through short descriptions with examples. If you prefer extensive theoretical explanations, you may find them scarce. But its worth remembering that programming is all about practice, so its good to get down to coding ASAP. I found all of the recaps crystal clear and didnt have additional questions. Another good thing about learning SQL with this platform is that you write the code yourself. Some e-learning platforms teach programming by giving out strings with blank spaces to fill in. It may seem helpful, especially for beginners, but to become skillful at any programming language, you need to write thousands of lines yourself. User Experience Creating an account on this platform takes seconds (yes, seconds). You can use your Google or Facebook profile or simply create a new one. Once set up, you can use it to take a look at some free exercises from your chosen course. LearnSQL.com provides an interactive programming environment, which means you dont have to install a database management system on your device. You write and execute your code directly in the browser and get instant feedback if anythings wrong. The platform is easy to navigate and intuitive. The interactive console also works smoothly. Whenever you get stuck, you can either get a hint or see the full answer, but in most cases, the error messages displayed after running your code are enough. Last but not least: theres a dark mode! Most users, including me, prefer working on a dark interface. Surprisingly, not all platforms provide it. SQL Focus As Ive said, on this platform, you can only learn SQL. It doesnt provide courses in other languages, which makes it unique on the e-learning market, which is full of all-in-one solutions. If youve decided to learn SQL, a specialized platform like this one is a great choice. The specialization provides high-quality content created by professionals in the chosen field (on LearnSQL.com, theyre delivered by experienced SQL developers). Additional Resources LearnSQL.com offers an extensive library of articles explaining how to learn SQL online quickly and efficiently. Apart from learning tips, youll find additional explanations regarding useful SQL functions, developers stories, or advice on how to write code thats easy to read. New articles are published almost every day! Theres also a special section called Cookbook. Its a collection of simple, recipe-like entries covering single SQL problems and their solutions. They guide you step-by-step through the coding challenge youre facing and give you a clear solution (with fragments of code presented). Its super useful if youre searching for a quick solution. And theyre sorted by database types (Standard SQL, MS SQL, etc.) to help you find your answer quickly. LearnSQL.com offers a comprehensive SQL Skill Assessment tool, designed to evaluate your current SQL knowledge and identify areas for improvement. This interactive feature helps you gauge your proficiency and tailor your learning path accordingly. For those starting from scratch, the SQL Primer is an invaluable resource that covers fundamental concepts in a straightforward manner, ensuring you build a solid foundation before diving deeper into more complex topics. Moreover, LearnSQL.com provides a collection of handy cheat sheets, which serve as quick references for various SQL commands and functions. These cheat sheets are perfect for beginners and experienced users alike, offering concise summaries that can save you time while coding and help reinforce your learning on the go. Pricing Model To learn SQL online with this platform, you need to create an account (as Ive said, it takes seconds). It gives you free access to several exercises from the first lessons of each course so that you can test them out. If you like the platform and want to start learning SQL for real, youll need to purchase a single course ($39), tracks or All Forever Package - access to all curent and future courses on the platform. There is also a Business plan for enterprise clients. It doesnt have fixed pricing, so you will need to contact the LearnSQL.com team for details. It provides access to custom courses, an early access program, a dedicated success manager, and an additional learning management portal, which allows you to track user progress. Check the details here. DataCamp DataCamp is a platform that offers numerous basic and advanced courses in data science. They cover nine technologies, including SQL. The courses are taught mainly by internal DataCamp developers but also university professors and business professionals. Learning SQL with this platform is slightly different from LearnSQL.com because DataCamp doesnt focus exclusively on SQL. Plus, it uses a different learning method. Course Offering On DataCamp, you can browse the course catalogue by technology or topic. There are several technologies to choose from and a separate category for theoretical courses. The topics cover data engineering, data manipulation, statistics, reporting, etc. DataCamp offers career tracks and skill tracks. They make learning SQL more goal-oriented, and you need to know what youre looking for. Theres one career track for those interested in learning SQL called Data Analyst with SQL Server. As far as skill tracks, new learners will benefit most from SQL Fundamentals or SQL Server Fundamentals, depending on the chosen database. Unfortunately, DataCamp skill tracks dont cover other SQL variations (e.g., the popular PostgreSQL). The platform has 34 courses for learning SQL at basic and more advanced levels. Teaching Method Learning SQL on DataCamp is slightly different from LearnSQL.com. DataCamp courses start with short videos with simple slides that are commented on by a teacher. After this theoretical introduction, you move on to exercises with written explanations. While learning SQL, you can go back to the video or view the slides. DataCamp courses consist of several chapters, including lessons and a summary. Most lessons end with a final exercise thats slightly more complex than the others. The explanations are clear, so doing the exercises shouldnt be problematic. If youre an auditory learner, youll probably find the videos cool. For me, its easier to follow written text while learning SQLI need to focus on new concepts and give myself enough time to grasp them. Thats why I didnt find the videos very useful and preferred to go directly to the descriptions. On DataCamp, you dont really write code yourself. When learning SQL with the basic courses, you instead fill in blank spaces with single words or clauses. Youre provided most of the necessary strings and instructions explaining what each line of your code should do. Its at the same time good and bad: good because it makes learning SQL easier and helps you understand everything fully, but bad because it doesnt provide enough practice. I prefer to write code myself, so I mostly deleted the code provided in the lessons and wrote it again. User Experience Creating an account on DataCamp is super quick. You can either provide your email and create a password or use your Google, Facebook, or LinkedIn account. After logging in for the first time, the system asks you about your preferred technology and the topic youre interested in (e.g., reporting, Machine Learning, business analytics, etc.) and suggests suitable courses. You can start learning instantly, but the free account only gives you access to the first chapter of each course. If you already have some SQL skills, you can test your knowledge with DataCamps assessment tool. Using DataCamp is simple and intuitive, and navigating through the website is easy. However, at first, you may have problems understanding what each page contains because there are many of them: career tracks, skill tracks, courses, practice, projects Interestingly, the platform offers many additional resources (Ill explain it later on), but not all of them are accessible from the user dashboard. To access them, you have to enter the Community section from the home page, which is visible after logging out. Just like LearnSQL.com, DataCamp provides an interactive environment that allows writing and executing queries in your browser. While learning SQL with its courses, you get instant feedback on whats wrong with your code, and you can also use hints. And theres a dark mode! Unfortunately, it doesnt cover the whole interfacethe console gets dark, but the instructions remain light. Pity! SQL Focus DataCamp is a platform for learning various analytical languages. Its a one-stop-shop for data science professionals, not only those interested in learning SQL. It offers courses in nine technologies, including popular languages like R, Python, and Git, and some additional chapters providing theoretical background for business professionals. While youre browsing the course catalogue, it becomes clear that the platform is not focused on SQL. It offers some courses in SQL, much more in Python, and even more in R. The other technologies have even fewer courses than SQL, so Id say that its specialized in Python and R. Additional Resources DataCamp has an extensive section of additional resources. First of all, it offers Practice and Projects: additional learning materials for practicing newly acquired skills. Practice sets include quizzes while Projects arewell, projects that are based on real-world data. Unfortunately, because DataCamp doesnt focus on SQL, there are only two Practice sets and one Project for this SQL. Theres also a separate page called DataCamp Community where youll find more resources. It features a data science blog (for basic and advanced users), a podcast (definitely for advanced users), cheat sheets (mainly for Python and R; no SQL here), and step-by-step tutorials (mainly for Python programmers; I found only a few for SQL). As Ive said, most of the resources are not available from the user dashboard, so make sure to access them directly or from the DataCamp homepage. Pricing Model To learn SQL on DataCamp, you need to create a free account. Once you have it, you get access to the first chapter of each course, challenges, a one-time skill assessment, and seven projects. To continue learning, you need to purchase a subscription plan: Premium for $13/month: access our full content library Teams for $25/month: access to all courses and ability to view learning activity and track progress Theres also the Enterprise plan for business users (no fixed pricing; contact DataCamp for details). Youll find the description of all plans here. Codecademy Codecademy is another one-stop-shop platform for basic and advanced developers. Apart from learning SQL, you can use it to dive into web development, design, other data science technologies, and more. It offers many programming languages in total, which is a robust course catalogue. Course Offering On Codecademy, you can browse the course catalogue by subject (web development, programming, data science, etc.) or language. There are 13 technologies to choose from, including SQL. The courses are grouped into career paths and skill paths. The only career path including SQL, Data Science, also covers Python, Data Visualization, and Machine Learning. Theres also one SQL skill path called Analyze Data with SQL that takes approximately six weeks to complete (counting lessons, articles to read, quizzes to take, and projects to complete). Codecademy offers 10 SQL courses in total: some elementary and others slightly more advanced (Id call them intermediate). However, if youre not sure if SQL is the one, Codecademy will help you choose your technology with a short quiz assessing your personal abilities. Im not sure about its usefulness though. I took it and got similar results in all four programming language categories. The platform doesnt offer any courses for learning SQL at an advanced level. Teaching Method On Codecademy, you learn SQL with textual explanations. The teachers (developers collaborating with the platform from around the world) provide you with simple descriptions of new concepts and sample code lines. After getting familiar with a new concept, you have to complete an exercise. Codecademy courses include several lessons and a review summarizing key concepts. Most of these lessons feature a cheat sheet with SQL functions, keywords, etc. (theyre nice, but not formatted for printingpity!). After completing a course, youre encouraged to do an additional project. I generally found the instructions clear, but sometimes I did have questions. In such cases, Codecademy redirected me to its user forum where I was likely to find an answer. On Codecademy, unlike at DataCamp, you write the code yourself from scratch. User Experience The platform allows you to create an account using your LinkedIn, Google, Facebook, GitHub, or Twitter profile. After logging in, you can immediately get down to learning SQL with the basic course, but you only have access to the first lesson. For more, you need to purchase a paid plan. Navigating through the website is rather easy. The user dashboard is simple as well, but I found the homepage a bit stacked. The platform shows you your courses, suggested practice and projects, new content, support tabs, and community hyperlinks all on one page! Its a bit overwhelming. Codecademy also provides an interactive coding environment that doesnt require installing databases on your computer. While doing exercises, you make use of a built-in console that works smoothly. If you get stuck, you can get a hint, take a look at a cheat sheet, or look for an answer in the Codecademy community forum. Just like on other platforms, you get instant feedback on whats wrong with your code. Interestingly, Codecademy has only a dark mode! However, it works like the one at DataCamp: the console is dark while instructions remain light. SQL Focus Codecademy is similar to DataCamp: its an all-in-one platform. However, its not for data science only. Apart from learning SQL, you can use it for learning other programming languages such as Java, Ruby, C++, PHP, or Swift. Python and JavaScript have the most courses. Codecademy has only a couple of courses devoted to SQL, which is the lowest number of the three platforms Ive tested. It clearly shows that SQL isnt its primary focus. Additional Resources Codecademy offers some additional resources that make learning SQL more effective. First of all, it features projects based on genuine databases and practice sets including quizzes. You can use them to practice your new SQL skills. The platform also has a blog section with entries on learning programming online, new courses, and news from the tech world. There are also posts about data science and developing in general, which are targeted to newbies. You can get some knowledge from the Codecademy articles page with content grouped by languages. Unfortunately, there is no SQL section. There is also a forum section where you can ask questions and discuss ideas. Thats where the lessons redirect to. Pricing Model To learn SQL online with Codecademy, you need to create a free account. It gives you full access to basic courses (obviously, there are only a few of them, and theyre elementary). To enjoy more benefits, you will need to purchase a subscription plan: PLUS for $29.99/month PRO for $39.99/month: access to non-basic courses, mobile practice, projects, and peer support Theres also a plan called Teams for enterprise clients without fixed pricing (contact Codecademy for details). Check out the plans here. Choose the Best Place to Learn SQL Online I hope that my comparison will help you choose your platform for learning SQL online. All of them have their pros and cons, so think about your learning priorities, set your goals, andlearn! Limited time offer only for PG Certificate Course in Data Science & AI/ML by IIT Roorkee Scholarship Test Share copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. We list the best SQL online courses, to make it simple and easy to learn how to mange, code, and run databases, covering everything from beginner to advanced users.The Structured Query Language or SQL as it is more popularly known is the language for interacting with databases. While the world may be divided on how to pronounce it, everyone seems to agree on the importance of SQL especially in this age of big data and business intelligence.With businesses of all sizes churning out an incredible amount of data, there is a huge demand for skills thatll not only help collect and store this data but also analyse it to make informed decisions. SQL is one of the essential tools in a data scientists toolbox and a gateway to data science jobs.Furthermore, SQL works with many of the popular relational database management systems like MySQL, MariaDB, PostgreSQL, Microsoft SQL Server, Oracle Database, and more. And that's regardless as to whether you're running your database in the cloud or on-premises.So whether you are a developer looking to pick up a new skill or a greenhorn, weve rounded up some of the best online courses to help you master SQL.We've also featured the best online courses for learning Linux and Python.Recommended cybersecurity courseWhy you can trust TechRadarWe spend hours testing every product or service we review, so you can be sure youre buying the best. Find out more about how we test.The best SQL online course of 2025 in full:Best SQL online course for beginners(Image credit: Udemy)If you are new to databases, the "Ultimate MySQL Bootcamp" course at Udemy is a very useful course to help you get started. The course is designed for absolute beginners with over 20 hours of videos. The course is divided into more than 300 lectures that cover a wide range of topics at a fairly good pace. Without rushing you, the instructor takes you from installing the MySQL database all the way to designing an Instagram-like database, which youll then use to solve some real-world data queries.The instructor originally recommended and used the online Cloud9 IDE, but post its acquisition by Amazon, suggests students use the very similar Goorm.io IDE. He also shows you how to install MySQL on Windows and Mac OS X, but suggests you get to this after youre done with the course.After hes equipped you with the skills to write SQL, the instructor ends the course by helping you build a simple web app. Instead of the popular MySQL and PHP combination, he uses Node.JS and the Express web development framework. While he does provide a crash-course for those who havent worked with Node.JS before, remember that this isnt the focal point of the course.Read our full Udemy review.Best SQL online course for big data analysis(Image credit: Coursera)If you are already familiar with SQL and want to put your skills to handle big data, then the "Analysing Big Data with SQL" course is designed for you. The course is provided by Cloudera and can be audited for free.The course assumes you have basic working knowledge of SQL and builds on top of that to help you write SQL SELECT statements geared towards data analysis. The instructor focuses on two distributed big data SQL engines, specifically Apache Hive and Apache Impala, though you can apply the learning on traditional RDBMS as well.The course provides a virtual machine (VM) that includes everything you need to follow the course. The VM has specific hardware requirements so make sure you review these before you enroll in the program.This course is the second in a three-part specialization. If you need to brush up on the concepts and vocabulary associated with the big data, you can take the earlier course that can also be audited for free.Read our full Coursera review.Best SQL online course for businesses(Image credit: edX)Data is pervasive in business and you can derive a lot of economic value from it. If you are looking to learn skills thatll help you do this, then take a look at the "Introduction to Data Analytics for Managers" course. The course is designed for managers who recognize the opportunity to use data analytics in business but lack the skills to implement it.Conducted by the Ross School of Business at the University of Michigan, the course uses a combination of lectures, business case studies, and hands-on exercises to give students an introduction to data analytics techniques and their application in business.Youll get a broad overview of tools and techniques in data analytics and management with enough hands-on examples and exercises to help prepare you for other deep dive courses on the subject. The course uses the browser-based Azure ML Studio IDE and also provides the dataset for you to import into the platform for this course.Read our full edX review.Best SQL online course for busy people(Image credit: Skillshare)If you dont have the luxury of time and want a crash course in SQL, check the course "Master SQL Database Queries in Just 90 Mins" on SkillShare.The course takes a little more than an hour to complete, and the instructor uses that time judiciously to cover everything from simple single table queries to joins and subqueries. He begins with a quick dive into creating tables and how to manipulate data inside them before moving on to retrieving information. The lessons are well explained and the exercises at the end of the lessons are pretty useful, especially since he spends time explaining all the solutions as well, which is really helpful.Note that during the course the instructor uses Firefox with the SQLite Manager add-on for executing the SQL queries. However, since that add-on cant keep up with newer Firefox releases, the instructor now suggests using DB Browser for SQLite, which is pretty similar.Read our full SkillShare review.Best SQL online course for advanced users(Image credit: LinkedIn Learning)While you can find many courses on SQL, there are very few that focus on query optimization. When you get down to writing SQL queries in the real world, you dont just want the correct result, you also want to ensure your queries are efficient. So while there may be many ways to execute a query, some are more efficient than others. The "Advanced SQL for Query Tuning and Performance Optimization" course will teach you everything you need to know about writing optimized queries.The course begins with an introduction to Indexing, which is one of the most important tools for tuning queries. Itll then teach you about query plans, the different ways to map a declarative query to a procedural execution plan, as well as the techniques for structuring your data and crafting your queries to produce efficient execution plans. Needless to say the course assumes familiarity with SQL and doesnt cover the basics. Also note that the trainer uses the PostgreSQL database in the course and covers installation on Mac OS X.Read our full LinkedIn Learning review.We've featured the best online learning platforms.Best SQL online course FAQsWhen deciding which of the best SQL online courses to use, first consider what level of competency you are currently at. If you've not learned SQL before then it would definitely be recommended to start with the beginner courses, as these will break you into the basics you'll need before you cover more advanced programming features. However, if you already have a decent amount of experience with SQL or other database development language then feel free to try your hand with the more advanced courses.How we tested the best SQL online courseTo test for the best SQL online courses we searched for a range of popular learning platforms as well as took recommendations from people who are learning SQL or who are already competent with it. Then we followed the tutorials to get an idea of how easy they were to follow, how easy it was to learn essential tools and processes, and additionally what sort of user level the courses were aimed at, such as beginner, medium, or advanced-level users.Read how we test, rate, and review products on TechRadar. Get in touchYou've reached the end of the page. Jump back up to the top ^Round up of today's best dealsSQL (Structured Query Language) is a language used to manage and manipulate data in relational databases. In todays data-driven world, SQL is an essential tool for data analysts, developers, and anyone else who works with data. As AI tools and models grow in popularity, so will supporting languages like SQL that work with data. In this article, I will discuss what SQL is, its importance, relevance, and ways to learn it. I will also answer some common questions that beginners might have about SQL. SQL (Structured Query Language) is a crucial tool for managing and manipulating data in relational databases, an essential skill in todays data-driven world. Learning SQL offers numerous benefits such as improving data analysis skills, enhancing productivity, learning transferable skills, and opening up new career opportunities in various industries. There are several ways to learn SQL including self-learning through online resources, bootcamps, SQL certifications, and traditional classroom-based learning. The choice depends on ones goals, learning style, time availability, and budget. Getting started with SQL involves understanding the basics, choosing a database, practicing with simple and complex queries, making use of available resources, and consistent practice. SQL is a programming language that is used to manage and manipulate relational databases. A relational database is a structured collection of data that is stored in tables, which are made up of rows and columns. SQL allows users to interact with these tables using various commands and statements (queries). For example, a user can use SQL to select specific data from a table, update existing data, or insert new data into a table. SQL also allows users to create and modify tables, set up relationships between tables, and define constraints to ensure data integrity. Heres an example of an SQL query that gets a list of users that have ordered a product: SELECT customer_name, order_dateFROM customersJOIN orders ON customers.customer_id = orders.customer_idJOIN order_items ON orders.order_id = order_items.order_idJOIN products ON order_items.product_id = products.product_idWHERE products.product_name = 'Roller Skates'; This query joins four tables customers, orders, order_items, and products to retrieve the names of customers who have ordered Roller Skates and the dates they placed the orders. A sample response to this query might look like: | customer_name | order_date ||-----------------|-------------|| John Faith | 2023-01-01 || Kiara Johnson | 2023-01-05 || Michelle Dams | 2023-01-10 || Jennifer Liu | 2023-01-15 | Yes! SQL continues to be one of the most widely used programming languages, particularly in the field of data analytics and database management. In fact, SQLs popularity has grown in the past year (TIOBE index). Not bad for a 49 year old language! Data literacy is expected to be the most in-demand workplace skill by 2030. The need for data management and analysis is increasing as more and more businesses and organizations rely on data-driven decision-making. With the rise of AI powered tools, any language that supports the updating and retrieving of this data will remain popular. If you work in tech, not only is know data useful for your career but it will soon become essential. If youve come to this article and are interested in data, analytics, or working as a backend developer, I would highly recommend learning SQL. Even if your goals are not related to data, SQL can still be a valuable skill to have. Heres a list of benefits learning SQL might bring: Learn in-demand skills: SQL is used by many industries, including finance, healthcare, retail, and technology, so there are many job opportunities available for those who have SQL skills. As mentioned earlier, AI, and therefore database interactions are becoming increasingly popular. Become better at analyzing data: If you work with data, SQL can help you extract valuable insights and information from large datasets. SQL allows you to quickly and efficiently query and manipulate data. Any developer, analyst, UX researcher, or Product person can leverage these skills. Improve your productivity: SQL is a powerful tool that can help you manage and organize data. With SQL, you can automate repetitive tasks and streamline your workflow, which can save you time and increase your productivity. Learn Transferable skills: SQL is not limited to any particular industry or job role. Once you have learned SQL, you can apply it to a wide range of tasks and projects. Open up career opportunities: SQL is often a prerequisite for roles in data analysis, data science, and data engineering. Learning SQL can help you take your career in new directions. There are several ways to learn SQL and each one has its place depending on your goals, learning style, time availability, and budget. Below are some popular options to consider: Self-learning through online resources and courses: There are a plethora of books and courses available to learn SQL. These resources range from free YouTube videos to paid online courses from reputable institutions like SitePoint, Coursera, Udemy, and Codecademy. Self-learning is a flexible option for those who prefer to learn at their own pace and have a limited budget. Bootcamps and intensive training programs: Bootcamps and intensive training programs are designed to provide hands-on training in a condensed time frame. These programs are typically shorter than traditional college courses and aim to teach practical skills that can be immediately applied to real-world projects. Bootcamps and intensive training programs can be expensive but provide a faster and more immersive learning experience. Specialized SQL certifications: For those looking to advance their career in data-driven areas, SQL certifications can be a valuable credential to have. Certifications are offered by various organizations, including Microsoft, Oracle, and the Data Warehousing Institute. These certifications validate your SQL skills and knowledge and can increase your chances of landing a higher-paying job. Traditional classroom-based learning: If you prefer a structured learning environment and have the time and resources, traditional classroom-based learning might be a good option. Many universities and community colleges offer SQL as part of their core computer science or business programs. This option provides a more hands-on and interactive experience, allowing you to ask questions and get feedback from an instructor. Heres a suggested approach to learning SQL. Each person if different, with varying programming skill level and goals, so take this with a grain of salt. A shameless plug: our famous Simply SQL course follows these steps and more and we believe its the best way for a beginner to start. Understand the basics: Before diving into the complex queries, you need to understand the basic concepts of SQL, such as tables, columns, rows, and relationships between tables. Choose a database: Select a database management system (DBMS) and become familiar with it. Some popular ones include MySQL, PostgreSQL, Microsoft SQL Server, and Oracle. They are all very similar and MySQL Community edition and PostgreSQL are free. I recommend starting with one of those two. Practice with simple queries: Start practicing with simple queries, such as selecting data from a single table or filtering data based on certain criteria. Venture into complex queries: As you gain more experience, start building on your knowledge with more complex queries, such as joins or aggregating data. Use resources: There are plenty of resources available to help you learn SQL, including online tutorials, books, and courses. Make use of these resources to help you gain a deeper understanding of the language. Practice, practice, practice: The key to mastering SQL is practice. Try to work on real-world projects or challenges to help you improve your skills. You do not necessarily need to have any coding experience however, it is helpful to have some basic understanding of data and how it is organized. Some familiarity with spreadsheets or databases can be beneficial. It is also recommended that you have a basic understanding of algebraic concepts and logic, as SQL involves working with data sets and manipulating them through logical queries. SQL is used in many industries, including finance, healthcare, retail, and technology. It is used for tasks such as data analysis, reporting, and management. Companies of all sizes rely on SQL to store and manage their data. Some examples of real-world applications of SQL include customer relationship management, inventory management, and fraud detection. In general, its best to set realistic expectations for yourself and focus on continuous learning and improvement rather than trying to master SQL in a specific timeframe. However, since you asked the amount of time it takes to learn SQL varies depending on the individual and the level of proficiency they wish to achieve. Learning the basics of SQL can take anywhere from a few days to a few weeks. Becoming proficient can take several months of consistent use. It is important to keep practicing and applying what you learn in real-world scenarios to solidify your understanding of the language. Some popular RDBMS include MySQL, Oracle, Microsoft SQL Server, and PostgreSQL. The choice of RDBMS depends on your project requirements, budget, and level of expertise. MySQL is a popular choice for web development projects, while Oracle is commonly used in enterprise-level applications. The main differences between them are: Cost: Oracle and Microsoft SQL Server are commercial products that require a license, while MySQL and PostgreSQL are open-source and free to use. Features: Each RDBMS has its own set of features and capabilities that can make it more suitable for certain use cases. Popularity: While all four are widely used, some are more popular in certain industries or among certain groups of developers. As for which one to learn first, it depends on your specific goals and needs. If you are just starting to learn SQL and want to get some hands-on experience, MySQL or PostgreSQL might be good choices since they are free and easy to set up. If you are interested in pursuing a career in a specific industry, it might be worth researching which RDBMS are commonly used in that field. Additionally, if you are already familiar with a certain RDBMS, it might make sense to continue learning and building on that knowledge. An RDBMS stands for Relational Database Management System. It is a type of database management system that stores data in tables with relationships between them. RDBMS uses SQL to manage and manipulate the data stored in the tables. Examples of RDBMS include MySQL, Oracle, and Microsoft SQL Server. NoSQL stands for not only SQL. It is a type of DBMS that is used to store and manage unstructured or semi-structured data. On the other hand, SQL is used for structured data in relational databases. One of the main differences between SQL and NoSQL is that SQL databases use a schema (a predefined structure for how data is organized), while NoSQL databases are schemaless, meaning data can be stored in a flexible and dynamic way. SQL databases are typically better for handling complex queries and transactions, while NoSQL databases are better for handling large volumes of unstructured data, and for scalability. If you are working with structured data and need complex querying capabilities, SQL may be the better choice. However, if you are working with unstructured data and need scalability, NoSQL may be the better option. I hope this guide has helped you decide on whether you want to learn SQL and, if so, how to get started. Its a popular and useful language that is expected to remain relevant for many years to come. Even if you arent interested in becoming a backend developer or database manager, SQL provides many benefits for career or personal productivity. SQL, or Structured Query Language, is a specialized programming language used for managing and querying relational databases. It allows you to interact with databases to store, retrieve, update, and manipulate data. Learning SQL is valuable because it enables you to work with data in a structured and efficient manner. Its a fundamental skill for anyone involved in data analysis, database administration, web development, or software engineering. SQL is considered one of the more accessible programming languages for beginners. It has a relatively simple syntax and doesnt require a deep understanding of programming concepts. Its an excellent choice for those new to programming and databases. No, you can learn SQL with various database systems. Popular choices include

MySQL, PostgreSQL, SQLite, Microsoft SQL Server, and Oracle. The core SQL syntax remains consistent across different databases, although there may be some vendor-specific differences. The time it takes to learn SQL varies depending on your prior experience and the depth of knowledge you wish to acquire. Many beginners can grasp the basics within a few weeks, but becoming proficient may take several months of practice.

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