

Get 7 days free access to 250+ end-to-end projects in Data Science & Big Data [Start Now](#)



20+ SQL Projects Ideas for Data Analysis to Practice in 2024

Learn how to use SQL for data analysis by working on the interesting SQL projects ideas discussed in this article.

Get Access To All Data Analytics Projects

[View All Data Analytics Projects](#)



Last Updated: 26 Dec 2023 | BY MANIKA

This article will teach you exciting **SQL project ideas** to develop data analysis skills. You will explore challenging problems that you can quickly solve with this simple query language. It doesn't matter if you are a beginner or a professional at using SQL; our list of **SQL database projects** has one for you.



SQL Project for Data Analysis using Oracle Database-Part 1

Downloadable solution code | Explanatory videos | Tech Support

Start Project

Data, data, everywhere!

Where's the way to manage it?

You don't have to fear,

because SQL programming language is here.

SQL stands for Structured Query Language and has been around since 1974. The language hasn't lost its charm and remains relevant for a rainbow of jobs even after about 50 years. Its simplicity is due to the simplicity of the language and extracting data from a database. It ranks fourth (just below Python) in the most used

programming languages worldwide in 2021.

Maximize Your Productivity and ROI with ProjectPro



The banner features six icons with corresponding text descriptions:

- 250+ State-of-the-Art End-to-End Projects in Data Engineering, Data Science, Machine Learning, and Cloud.**
- 600 + Hours of Guided and Explanatory Videos by Industry Experts**
- Personalized Project Paths based on Your Goals**
- 5 New Projects Added Every Month**
- Deploy Projects to Enterprise Grade Cloud Lab Environment**
- Unlimited 1:1 Sessions with Top Industry Experts for Project Troubleshooting, Mock Interviews**

Book Free Demo

 ProjectPro

Even job roles like [Data Analysts](#) and [Data Scientists](#) heavily rely on SQL for fetching data from the source. They use SQL to stream data from the database, manipulate it, handle null values, etc. And, if you are targeting any one of these roles, make sure you [learn SQL](#) as it is an integral part of the day-to-day responsibilities of any data job role.

Table of Contents

- [SQL Projects For Data Analysis](#)
- [SQL Projects for Beginners](#)
- [SQL Projects on GitHub](#)
- [Best SQL Projects for Resume of Intermediate Professionals](#)
- [SQL Projects for Portfolio Building \(with Source code\)](#)
- [SQL Projects FAQs](#)

SQL Projects For Data Analysis

Hoping the example above has fueled you with the zeal to enhance your programming skills in [SQL](#), we present you with an exciting list of **SQL projects for practice**. You can use these [SQL projects for data analyst role](#) and add them to your [data analyst portfolio](#). You will also find a few **SQL projects with source code** towards the end of this blog.



SQL Projects for Beginners

Below is a list of beginner **SQL projects** for freshers or newbies in SQL. These **project ideas for beginners** are simple and will help you quickly learn the basics of SQL.



1. Inventory Control Management Database Project

For any product-based business, keeping track of all the items in their inventory is critical. Data Analysts use SQL to build an inventory management system to help

business owners make critical decisions related to inventory planning.

Dataset: As an example, you can use this [Walmart Dataset on Kaggle](#). The dataset contains [Walmart store sales](#) (Year, Month, Product Category, and Sales) for 2009-2014. It also includes macroeconomic parameters like GDP, CPI, cotton production, unemployment rate, etc. You will also have weather and holiday data.

SQL Data Analysis Project Idea: You can use the dataset to create an **online retail application database** in SQL for this SQL project for data analysis. After that, use SQL commands like order by, group by, etc. to answer the following sample questions:

- Which year had the highest sales?
- How was the weather during the year of highest sales?
- Conclude whether the weather has an essential impact on sales.
- Do the sales always rise near the holiday season for all the years?
- Analyze the relationship between sales and the different macroeconomic variables in the dataset.

Get FREE Access to Data Analytics Example Codes for Data Cleaning, Data Munging, and Data Visualization

2. European Soccer Game Analysis

If you are a soccer fan and enjoy analyzing trends in sports teams, this SQL project for practice is for you. This SQL project will guide you through the application of the query language for understanding the dataset at an aggregated level.

Dataset: Download this [European Soccer Game Dataset from Kaggle](#). It contains the following tables:

Country: It contains the list of countries where the games are played and their unique ids.

League: It contains the specific titles of the sports events/league matches.

Match: It contains performance metrics of various players for different league matches. The information is specified using the unique ids of the other three tables: Country, League, and Team.

Player: It has Players' names, height, weight, birth date, FIFA ID, and API ID.

Player_Attributes: It has various parameters like rating, possible score, best foot, etc., for each player to highlight their overall performance.

Team: It contains teams' names (short and long), and their IDs for API and FIFA.

Team_Attributes: It contains various columns that reflect each team's performance.

SQL Data Analysis Project Idea: Use the dataset to create a database in SQL. Display various tables using the SELECT command in SQL to look at values stored in the tables. As per the values, use specific JOIN command to combine the tables. Use ORDER BY, GROUP BY, and LIMIT commands to analyze the data of various teams and their players. Also, use aggregate functions to rank the different teams.

3. Bookstore Analysis/ Library Management System

Here is one of the most fun SQL projects for beginners in SQL. Recall your school days. You must have come across [various books](#). Work on this project and set up a virtual bookstore with your favorite books.

Dataset: Imagine you run a chain of bookstores. Create a sample dataset of your favorite books by noting the following details for each book in a table: Book_ID, Book Name, Publisher, ISBN, Edition, Number of pages, Sales, City, and Price.

SQL Data Analysis Project Idea: Use the dataset to answer the following questions:

- Which book is the most expensive?
- What are the most popular books in each city?
- Which is the most bought book?
- Which book is least preferred by the readers?

4. Blood Bank Management System

Blood banks collect, preserve, and offer blood to patients. The Blood Bank Management System helps blood banks to maintain records of the quality of the blood and its availability whenever a patient requests it. If you are looking for SQL practice projects in the healthcare industry, this project is a must try.

Dataset: Create a **blood donation database** that contains data about the blood donors (name, age, blood group, etc.), recipients (name, age, blood group, etc.), hospitals who need blood from the blood bank, quality of the blood (whether it is contaminated or not), etc.

SQL Data Analysis Project Idea: Use the dataset to answer the following questions-

- Is there sufficient blood available at the blood bank?
- Does the donor have any blood-borne diseases? Etc.

5. Analyzing Sales Data

By analyzing sales data using SQL, businesses can gain insights into their sales performance, identify areas for improvement, and make data-driven decisions to increase revenue and profitability.

Dataset: Use the Walmart Sales Dataset available on Kaggle for this project that contains the following variables:

Store - the store number

Date - the week of sales

Holiday - whether the week is a special holiday week or not

Temperature - the average temperature in the region during the week

Fuel_Price - the cost of fuel in the region during the week

MarkDown1-5 - anonymized data related to promotional markdown events

CPI - the consumer price index in the region

Unemployment - the unemployment rate in the region

IsHoliday - whether the week is a holiday week or not

Weekly_Sales - the sales for the given store and date

SQL Data Analysis Project Idea: Design SQL queries to answer the following questions:

- What was the total revenue generated by the retailer during the time period covered by the dataset?
- Which product had the highest total revenue?
- Which customers generated the most revenue for the retailer?
- How many unique products were sold?

6. Customer Segmentation

Customer segmentation is a typical strategy used by organisations to categorise clients based on their demographics, shopping patterns, or other traits.

Dataset: Look for a dataset that contains information about customers such as demographic information, purchasing history, and customer interactions. If you are looking for sample dataset, then download this [Online Retail Dataset](#) which contains the following variables:

InvoiceNo: The invoice number for each transaction

StockCode: The unique code for each product sold

Description: The description of each product sold

Quantity: The quantity of each product sold in each transaction

InvoiceDate: The date and time of each transaction

UnitPrice: The price of each product sold

CustomerID: The unique identifier for each customer

Country: The country where each transaction occurred

SQL Project Idea: Use SQL queries to answer the following questions:

- What is the distribution of order values across all customers in the dataset?
- How many unique products has each customer purchased?
- Which customers have only made a single purchase from the company?
- Which products are most commonly purchased together by customers in the dataset?

7. Student Database Management System

A Student Database Management System automates and streamlines various tasks and processes related to student information, making it easier for educators and administrators to access and analyze data. If you are looking for basic SQL projects that are fun to implement, then you must not skip this project idea.

Dataset: For this project, build a sample dataset contains the following variables:

Studen_ID: A unique code for each student

Student Name: Full name of the student

Age: Age of student in numbers

Gender: Variable specifying the gender of the student

Grade-level: Grade in which the student is

Attendance: Total number of days the student attended the classes

GPA: Score of the student

SQL Project Idea: Use SQL queries to answer the following questions:

- What is the average GPA for all students in the database?
- How many students have perfect attendance records?
- What is the total number of students enrolled in the school?

New Projects

Stock Price Prediction Project using LSTM and RNN

Build an ETL Pipeline for Financial Data Analytics on GCP-IaC

SQL Projects on GitHub

If you want to work on easy SQL projects from GitHub that are simple to learn, check out the list below.



8. Analyzing Road Safety in the UK

The UK Department of Transport provides open datasets on road safety and casualties, and one can use these datasets to analyze how safe the roads in the UK are. This project will help you answer a few questions using their 2015 dataset.

Dataset:

The dataset has three tables:

- **Accident:** It contains information related to the location of each accident, the number of casualties that occurred, temporal data, and weather conditions on the day of the accident.
- **Vehicle:** It has all the necessary information about the vehicle and its driver.
- **Vehicle_Type:** It contains more information about the vehicle involved in an accident.

SQL Project Idea: Use aggregate functions in SQL and [Python](#) to answer the following sample questions:

- Evaluate the median severity value of accidents caused by various Motorcycles.
- Evaluate Accident Severity and Total Accidents per Vehicle Type
- Calculate the Average Severity by vehicle type.
- Calculate the Average Severity and Total Accidents byMotorcyclee.

GitHub Repository: [UK Road Safty Accidents 2015 by Phone Thiri Yadana](#)

9. International Debt Statistics Analysis

Just like citizens go to a bank if they need money to grow economically, countries also approach the World Bank for loans to support development in their countries. In this project, you will explore countries' debts to the World Bank using [SQL](#). If you are in search of SQL practice projects in the financial sector, do not miss this project.

Dataset: The dataset belongs to the World Bank and contains information about how much money countries worldwide owing to the Bank. It includes the following columns:

Country_name: Full name of the country

Country_code: Three-letter code for the country.

Indicator_name: It specifies the motive behind the debt.

indicator_code debt

SQL Project Idea: Using SQL commands on the dataset, answer the following questions:

- What is the total amount of money that countries owe to the World Bank?
- Which country has the highest debt, and how much is that?
- What is the mean debt owed by countries for different debt indicators?

GitHub Repository: [Analyzing International Debt by Loic Champlong](#)

10. Analyzing the World Population

In this SQL project, you will use the dataset by CIA World Factbook and explore how the world population spreads across different countries.

Dataset: The dataset contains 11 columns and 262 rows. It has the following variables:

id - id number attributed to a country.

code - country code, made from the two first letters of the country.

area - total area of the country (area_water + area_land).

population - population of the country.

population_growth - the ratio of the population growth in 2015.

birth_rate - the rate at which people are born in a country.

death_rate - the rate at which people die in a country.

migration_rate - the ratio of people that left one country to another.

Please note that the last row (id 262) is not a country but "World" (code: xx). The data has information from only 261 different countries.

Get More Practice, More Big Data and Analytics Projects, and More guidance. Fast-Track Your Career Transition with ProjectPro

SQL Project Idea: This project will guide you through using SQL in the Jupyter python notebook. You will learn how to use SQL to answer the following analytical questions:

- Which country has the highest population?
- Which country has the least number of people?
- Which country is witnessing the highest population growth?
- Which country has an extraordinary number for the population?
- Which is the most densely populated country in the world?

GitHub Repository: [Analysis of the 2015 World Population by Loic Champlong](#)

11. Railway Management System

Traveling is fun! But planning a trip, booking tickets, making reservations, dealing with last-minute cancellations, etc., can be stressful! A railway management system allows users to book tickets, cancel reservations, check tariffs, etc.

Dataset: The dataset contains only one file which has the **train details**, i.e.,

Train_details.csv-

- Train No,

- Station Code,
- Station Name,
- Arrival time,
- Departure Time,
- Distance,
- Source Station,
- Source Station Name,
- Destination Station,
- Destination Station Name

SQL Project Idea: This project uses MySQL as the backend database to let users perform the following tasks-

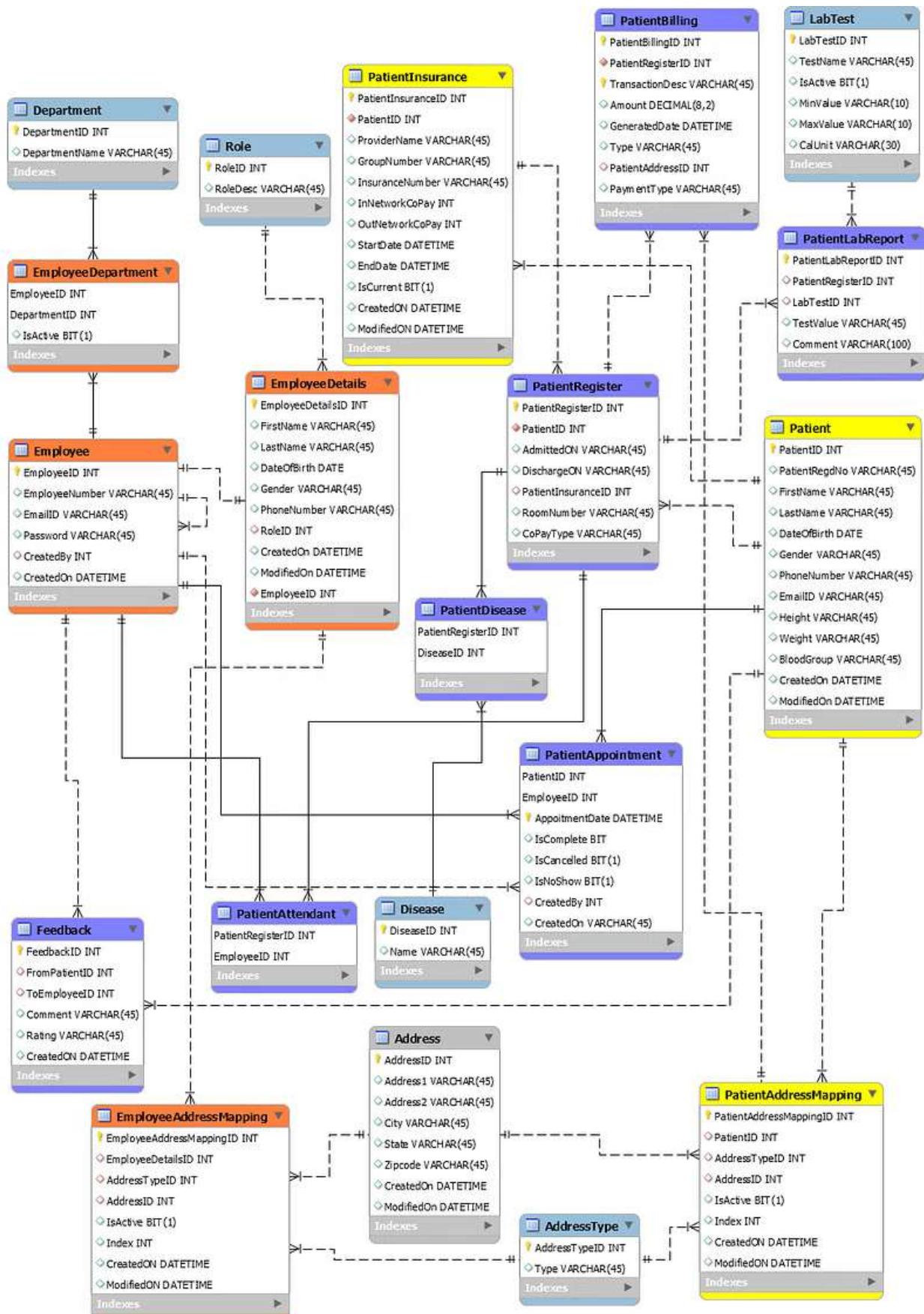
- Book a ticket or cancel a booked ticket.
- Check fares before booking, and also check their bookings.
- Check the available trains, etc.

GitHub Repository: [Railway Management System](#)

12. Hospital Management System

Optimizing daily tasks is a top priority for most hospitals. In this project, the goal is to build a system that you can query for streamlining tasks, improving efficiency, and gaining access real-time reports on the hospital's operations.

Dataset: [This github repository](#) contains a sample dataset that you can use for the implementation of this project. The image below summarizes the different variables in the dataset.



SQL Project Idea: This project uses MySQL as the backend database to let users perform the following tasks-

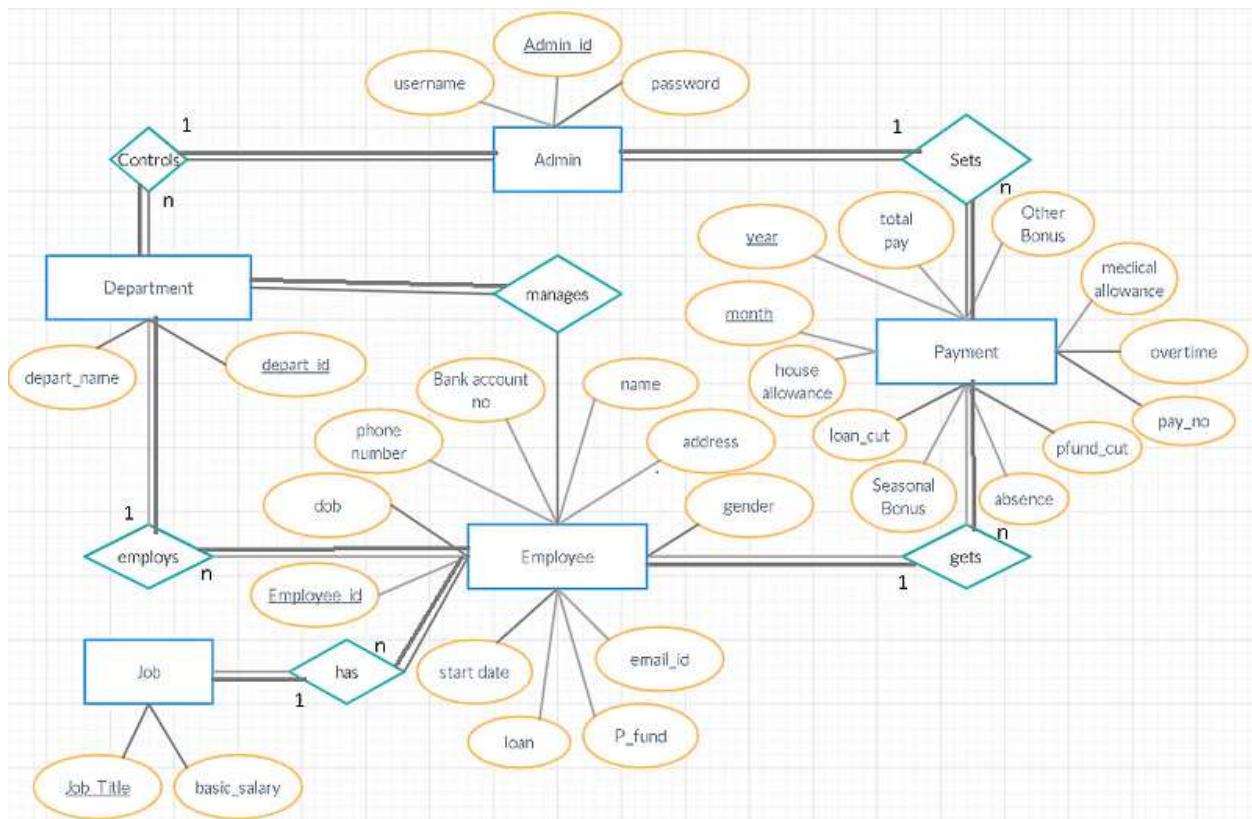
- Book an appointment with a doctor or cancel a booked appointment.
- Gain access to medical reports.
- Check for the already booked appointments, etc.

GitHub Repository: [Hospital Management System](#)

13. Payroll Management System

The Payroll Management System is a comprehensive software solution designed to automate and streamline the payroll process for organizations. This system enables organizations to accurately calculate and manage employee salaries, taxes, and other deductions, making the payroll process efficient and error-free.

Dataset: Here is an image that describes the information contained in the database.



SQL Project Idea: This project uses MySQL as the backend database to let users perform the following tasks-

- Set salary of a particular employee based on their designation.
- Add different department names to the database.
- View payslips of a specific employee, etc.

GitHub Repository: [Payroll Management System](#)

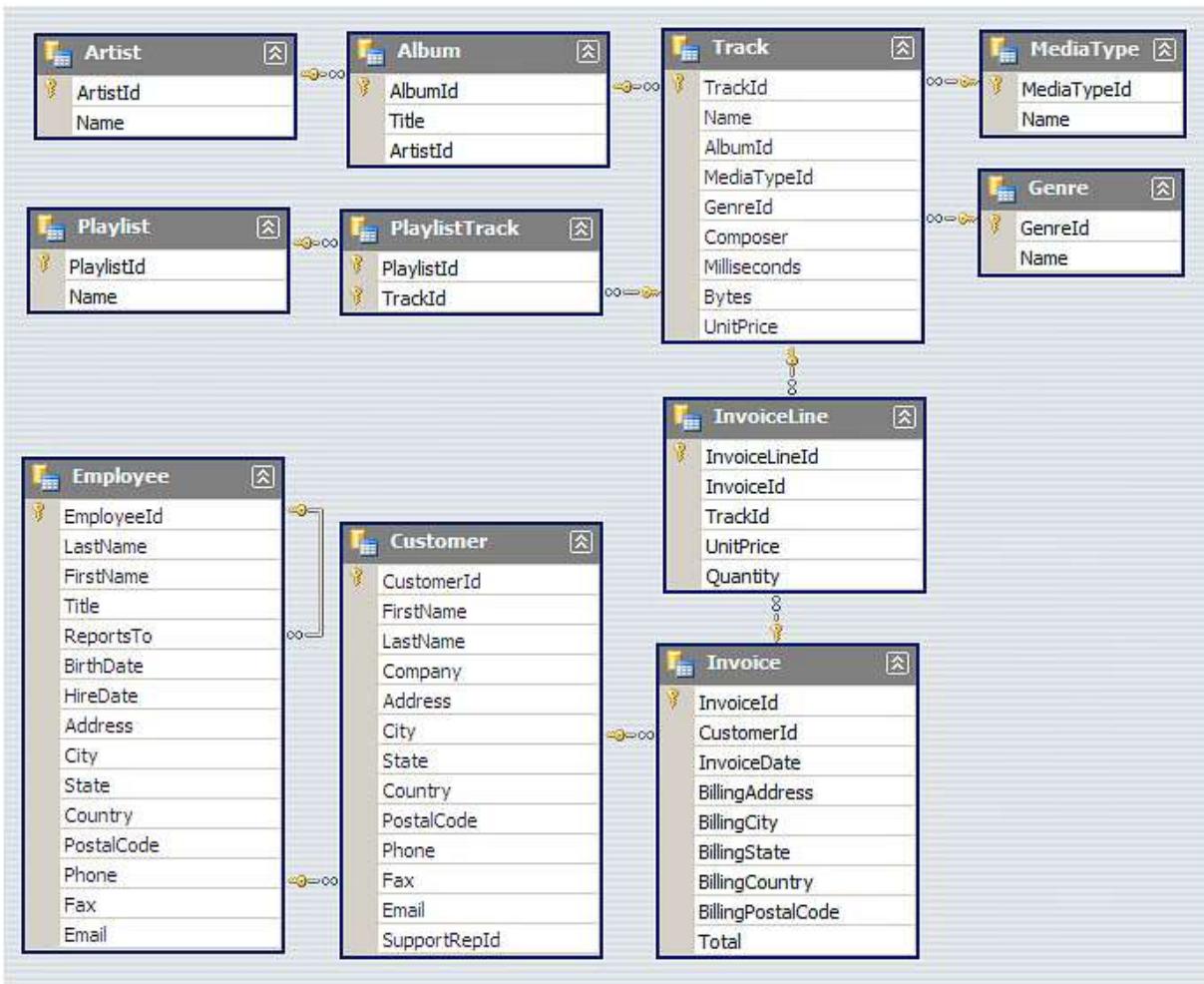
Explore Categories



14. Digital Music Store Analysis

This project will teach you how to analyze the Chinook playlist database by Udacity. You can examine the dataset with SQL and help the store understand its business growth by answering simple questions.

Dataset: Here is an image that describes the information contained in the database.



Source: Github

Unlock the ProjectPro Learning Experience for FREE

SQL Project Idea: Below is a few sample questions you can attempt to practice on this database.

- Which city corresponds to the best customers?
- The highest number of invoices belongs to which country?
- Name the best customer (customer who spent the most money).
- Suppose you want to host a rock concert in a city and want to know which location should host it. Query the dataset to find the city with the most rock-music listeners to answer this question.
- If you want to know which artists the store should invite, find out who is the highest-paid and most-listened-to.

GitHub Repository: [Data-Analysis-for-Digital-Music-Store by Phone Thiri Yadana](https://www.projectpro.io/article/sql-database-projects-for-data-analysis-to-practice/565)

Best SQL Projects for Resume of Intermediate Professionals

This section will list best SQL projects examples that are slightly more difficult than those mentioned in the previous sections. Once you feel confident about your SQL knowledge and skills, start working on these **intermediate level SQL projects**-



15. House Property Sales Analysis

The [retail industry](#) now heavily relies on data analytics tools to better estimate the prices of different properties. Work on this project idea deals with analyzing the sales of house properties in a city in Australia.

Dataset: The House Property Sales dataset on Kaggle contains a file named 'raw_sales.csv.' It includes the following variables:

Datesold: The date when an owner sold the house to a buyer.

Postcode: 4 digit postcode of the suburb where the owner sold the property

Price: Price for which the owner sold the property.

Bedrooms: Number of bedrooms

SQL Project Idea: First, use basic commands in SQL to get a feel of the scale of the numbers involved in the dataset. After that, answer the questions mentioned below to learn more about the patterns in the dataset.

- Which date corresponds to the highest number of sales?
- Find out the postcode with the highest average price per sale? (Using Aggregate Functions)
- Which year witnessed the lowest number of sales?
- Use the window function to deduce the top six postcodes by year's price.

16. Time Series Analysis

Time series data is a collection of variables whose values depend on time. [Analyzing time-series](#) data is trivial with Python, but with SQL, it becomes a pretty challenging task. Work on this project to understand what difficulties one might encounter using SQL for time series analysis.

Dataset: Use the [SuperStore Time Series Dataset from Kaggle](#) to work on this project. The dataset contains 20 columns, namely, Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, Country, and City.

SQL Project Idea: Clean the data first using the data preprocessing method and make it SQL-ready. After that, complete the following tasks:

- Use the LEAD window function to create a new column sales_next that displays the sales of the next row in the dataset. This function will help you quickly compare a given row's values and values in the next row.
- Create a new column sales_previous to display the values of the row above a given row.
- Rank the data based on sales in descending order using the RANK function.
- Use common SQL commands and aggregate functions to show the monthly and daily sales averages.
- Analyze discounts on two consecutive days.
- Evaluate moving averages using the window functions.

Get confident to build end-to-end
projects

Access to a curated library of 250+ end-to-end industry projects with solution code, videos and tech support.

[Request a demo](#)

17. Sentiment Analysis

While most professionals stick to Python for implementing a [sentiment analysis project](#), we suggest you try out solving this problem with SQL.

Dataset: To avoid complications, we suggest you create a sample dataset on your own for this project. Write about ten reviews for a movie of your choice, and make sure the length is up to 6 words. If you want to make it challenging, you may extract reviews from Twitter.

SQL Project Idea: Perform [Text mining](#) in SQL, separate words from each review, and extract primary keywords. Assign '1' to positive keywords and '-1' to negative keywords. Sum the keywords for each and analyze the overall sentiment of each user.

18. Linear Regression SQL Project

SQL is not the best tool to perform regression analysis on a dataset. But, it is not right to believe that one can not use SQL for it. So, here is an SQL project that will help you understand how one can [implement a linear regression algorithm](#) in SQL.

Dataset: The dataset for this project is available on Kaggle and is called the Fishmarket dataset. It has data on seven species for market sale and contains seven variables. Four variables define the species name, width, weight, and height of the fish, and the other variables are lengths measured diagonally, vertically, and cross-wise.

SQL Project Idea: To understand the basics first, we suggest you work with the two variables, the weight and height of the fish. After loading the dataset in the SQL, analyze the values of the two variables using the SELECT statement. After that, implement statistical formulae for determining the value of slope and intercept in SQL using the aggregate functions.

Build an Awesome Job Winning Project Portfolio with Solved End-to-End Big Data Projects

SQL Projects for Portfolio Building (with Source code)

Here are a few solved end-to-end **SQL database projects** to help you build your SQL portfolio for landing a data analyst role. These projects will give you the training necessary from an industry perspective. Click on the project titles to follow the source code and follow these projects in the order mentioned.



19. SQL Project for Data Analysis using Oracle Database-Part 1

In this project, you will learn the application of Oracle Database 21C. You will explore the nuts and bolts of **data analysis** using SQL commands. You will learn how to use DML commands and create complex nested functions for analysis.

**SQL Project for Data Analysis
using Oracle Database-Part 1**

```

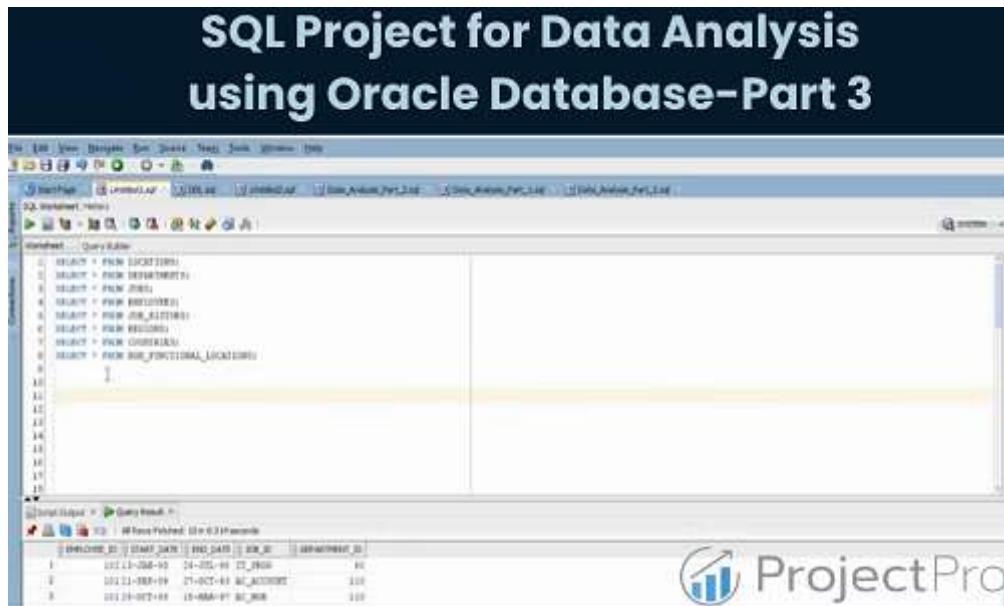
18: --SELECT * FROM EMPLOYEES WHERE DEPARTMENT_ID = 10 AND SALARY > 10000
19: --
20: --
21: SELECT *
22: FROM EMPLOYEES
23: WHERE DEPARTMENT_ID = 10 AND SALARY > 10000
24: OR DEPARTMENT_ID = 10 AND SALARY < 20000
25: ORDER BY SALARY;
26: 
27: 
28: 
29: 
30: 
31: 
32: 
33: 
34: 
35: 
36: 
37: 
38: 
39: 
40: 
41: 
42: 
43: 
44: 
45: 
46: 
47: 
48: 
49: 
50: 
51: 
52: 
53: 
54: 
55: 
56: 
57: 
58: 
59: 
60: 
61: 
62: 
63: 
64: 
65: 
66: 
67: 
68: 
69: 
70: 
71: 
72: 
73: 
74: 
75: 
76: 
77: 
78: 
79: 
80: 
81: 
82: 
83: 
84: 
85: 
86: 
87: 
88: 
89: 
90: 
91: 
92: 
93: 
94: 
95: 
96: 
97: 
98: 
99: 
100: 
101: 
102: 
103: 
104: 
105: 
106: 
107: 
108: 
109: 
110: 
111: 
112: 
113: 
114: 
115: 
116: 
117: 
118: 
119: 
120: 
121: 
122: 
123: 
124: 
125: 
126: 
127: 
128: 
129: 
130: 
131: 
132: 
133: 
134: 
135: 
136: 
137: 
138: 
139: 
140: 
141: 
142: 
143: 
144: 
145: 
146: 
147: 
148: 
149: 
150: 
151: 
152: 
153: 
154: 
155: 
156: 
157: 
158: 
159: 
160: 
161: 
162: 
163: 
164: 
165: 
166: 
167: 
168: 
169: 
170: 
171: 
172: 
173: 
174: 
175: 
176: 
177: 
178: 
179: 
180: 
181: 
182: 
183: 
184: 
185: 
186: 
187: 
188: 
189: 
190: 
191: 
192: 
193: 
194: 
195: 
196: 
197: 
198: 
199: 
200: 
201: 
202: 
203: 
204: 
205: 
206: 
207: 
208: 
209: 
210: 
211: 
212: 
213: 
214: 
215: 
216: 
217: 
218: 
219: 
220: 
221: 
222: 
223: 
224: 
225: 
226: 
227: 
228: 
229: 
230: 
231: 
232: 
233: 
234: 
235: 
236: 
237: 
238: 
239: 
240: 
241: 
242: 
243: 
244: 
245: 
246: 
247: 
248: 
249: 
250: 
251: 
252: 
253: 
254: 
255: 
256: 
257: 
258: 
259: 
260: 
261: 
262: 
263: 
264: 
265: 
266: 
267: 
268: 
269: 
270: 
271: 
272: 
273: 
274: 
275: 
276: 
277: 
278: 
279: 
280: 
281: 
282: 
283: 
284: 
285: 
286: 
287: 
288: 
289: 
290: 
291: 
292: 
293: 
294: 
295: 
296: 
297: 
298: 
299: 
300: 
301: 
302: 
303: 
304: 
305: 
306: 
307: 
308: 
309: 
310: 
311: 
312: 
313: 
314: 
315: 
316: 
317: 
318: 
319: 
320: 
321: 
322: 
323: 
324: 
325: 
326: 
327: 
328: 
329: 
330: 
331: 
332: 
333: 
334: 
335: 
336: 
337: 
338: 
339: 
340: 
341: 
342: 
343: 
344: 
345: 
346: 
347: 
348: 
349: 
350: 
351: 
352: 
353: 
354: 
355: 
356: 
357: 
358: 
359: 
360: 
361: 
362: 
363: 
364: 
365: 
366: 
367: 
368: 
369: 
370: 
371: 
372: 
373: 
374: 
375: 
376: 
377: 
378: 
379: 
380: 
381: 
382: 
383: 
384: 
385: 
386: 
387: 
388: 
389: 
390: 
391: 
392: 
393: 
394: 
395: 
396: 
397: 
398: 
399: 
400: 
401: 
402: 
403: 
404: 
405: 
406: 
407: 
408: 
409: 
410: 
411: 
412: 
413: 
414: 
415: 
416: 
417: 
418: 
419: 
420: 
421: 
422: 
423: 
424: 
425: 
426: 
427: 
428: 
429: 
430: 
431: 
432: 
433: 
434: 
435: 
436: 
437: 
438: 
439: 
440: 
441: 
442: 
443: 
444: 
445: 
446: 
447: 
448: 
449: 
450: 
451: 
452: 
453: 
454: 
455: 
456: 
457: 
458: 
459: 
460: 
461: 
462: 
463: 
464: 
465: 
466: 
467: 
468: 
469: 
470: 
471: 
472: 
473: 
474: 
475: 
476: 
477: 
478: 
479: 
480: 
481: 
482: 
483: 
484: 
485: 
486: 
487: 
488: 
489: 
490: 
491: 
492: 
493: 
494: 
495: 
496: 
497: 
498: 
499: 
500: 
501: 
502: 
503: 
504: 
505: 
506: 
507: 
508: 
509: 
510: 
511: 
512: 
513: 
514: 
515: 
516: 
517: 
518: 
519: 
520: 
521: 
522: 
523: 
524: 
525: 
526: 
527: 
528: 
529: 
530: 
531: 
532: 
533: 
534: 
535: 
536: 
537: 
538: 
539: 
540: 
541: 
542: 
543: 
544: 
545: 
546: 
547: 
548: 
549: 
550: 
551: 
552: 
553: 
554: 
555: 
556: 
557: 
558: 
559: 
559: 
560: 
561: 
562: 
563: 
564: 
565: 
566: 
567: 
568: 
569: 
570: 
571: 
572: 
573: 
574: 
575: 
576: 
577: 
578: 
579: 
579: 
580: 
581: 
582: 
583: 
584: 
585: 
586: 
587: 
588: 
589: 
589: 
590: 
591: 
592: 
593: 
594: 
595: 
596: 
597: 
598: 
599: 
599: 
600: 
601: 
602: 
603: 
604: 
605: 
606: 
607: 
608: 
609: 
609: 
610: 
611: 
612: 
613: 
614: 
615: 
616: 
617: 
618: 
619: 
619: 
620: 
621: 
622: 
623: 
624: 
625: 
626: 
627: 
628: 
629: 
629: 
630: 
631: 
632: 
633: 
634: 
635: 
636: 
637: 
638: 
639: 
639: 
640: 
641: 
642: 
643: 
644: 
645: 
646: 
647: 
648: 
649: 
649: 
650: 
651: 
652: 
653: 
654: 
655: 
656: 
657: 
658: 
659: 
659: 
660: 
661: 
662: 
663: 
664: 
665: 
666: 
667: 
668: 
669: 
669: 
670: 
671: 
672: 
673: 
674: 
675: 
676: 
677: 
678: 
679: 
679: 
680: 
681: 
682: 
683: 
684: 
685: 
686: 
687: 
688: 
689: 
689: 
690: 
691: 
692: 
693: 
694: 
695: 
696: 
697: 
698: 
699: 
699: 
700: 
701: 
702: 
703: 
704: 
705: 
706: 
707: 
708: 
709: 
709: 
710: 
711: 
712: 
713: 
714: 
715: 
716: 
717: 
718: 
719: 
719: 
720: 
721: 
722: 
723: 
724: 
725: 
726: 
727: 
728: 
729: 
729: 
730: 
731: 
732: 
733: 
734: 
735: 
736: 
737: 
738: 
739: 
739: 
740: 
741: 
742: 
743: 
744: 
745: 
746: 
747: 
748: 
749: 
749: 
750: 
751: 
752: 
753: 
754: 
755: 
756: 
757: 
758: 
759: 
759: 
760: 
761: 
762: 
763: 
764: 
765: 
766: 
767: 
768: 
769: 
769: 
770: 
771: 
772: 
773: 
774: 
775: 
776: 
777: 
778: 
779: 
779: 
780: 
781: 
782: 
783: 
784: 
785: 
786: 
787: 
788: 
789: 
789: 
790: 
791: 
792: 
793: 
794: 
795: 
796: 
797: 
798: 
799: 
799: 
800: 
801: 
802: 
803: 
804: 
805: 
806: 
807: 
808: 
809: 
809: 
810: 
811: 
812: 
813: 
814: 
815: 
816: 
817: 
818: 
819: 
819: 
820: 
821: 
822: 
823: 
824: 
825: 
826: 
827: 
828: 
829: 
829: 
830: 
831: 
832: 
833: 
834: 
835: 
836: 
837: 
838: 
839: 
839: 
840: 
841: 
842: 
843: 
844: 
845: 
846: 
847: 
848: 
849: 
849: 
850: 
851: 
852: 
853: 
854: 
855: 
856: 
857: 
858: 
859: 
859: 
860: 
861: 
862: 
863: 
864: 
865: 
866: 
867: 
868: 
869: 
869: 
870: 
871: 
872: 
873: 
874: 
875: 
876: 
877: 
878: 
879: 
879: 
880: 
881: 
882: 
883: 
884: 
885: 
886: 
887: 
888: 
889: 
889: 
890: 
891: 
892: 
893: 
894: 
895: 
896: 
897: 
898: 
899: 
899: 
900: 
901: 
902: 
903: 
904: 
905: 
906: 
907: 
908: 
909: 
909: 
910: 
911: 
912: 
913: 
914: 
915: 
916: 
917: 
918: 
919: 
919: 
920: 
921: 
922: 
923: 
924: 
925: 
926: 
927: 
928: 
929: 
929: 
930: 
931: 
932: 
933: 
934: 
935: 
936: 
937: 
938: 
939: 
939: 
940: 
941: 
942: 
943: 
944: 
945: 
946: 
947: 
948: 
949: 
949: 
950: 
951: 
952: 
953: 
954: 
955: 
956: 
957: 
958: 
959: 
959: 
960: 
961: 
962: 
963: 
964: 
965: 
966: 
967: 
968: 
969: 
969: 
970: 
971: 
972: 
973: 
974: 
975: 
976: 
977: 
978: 
979: 
979: 
980: 
981: 
982: 
983: 
984: 
985: 
986: 
987: 
988: 
989: 
989: 
990: 
991: 
992: 
993: 
994: 
995: 
996: 
997: 
998: 
999: 
999: 
1000: 
1001: 
1002: 
1003: 
1004: 
1005: 
1006: 
1007: 
1008: 
1009: 
1009: 
1010: 
1011: 
1012: 
1013: 
1014: 
1015: 
1016: 
1017: 
1018: 
1019: 
1019: 
1020: 
1021: 
1022: 
1023: 
1024: 
1025: 
1026: 
1027: 
1028: 
1029: 
1029: 
1030: 
1031: 
1032: 
1033: 
1034: 
1035: 
1036: 
1037: 
1038: 
1039: 
1039: 
1040: 
1041: 
1042: 
1043: 
1044: 
1045: 
1046: 
1047: 
1048: 
1049: 
1049: 
1050: 
1051: 
1052: 
1053: 
1054: 
1055: 
1056: 
1057: 
1058: 
1059: 
1059: 
1060: 
1061: 
1062: 
1063: 
1064: 
1065: 
1066: 
1067: 
1068: 
1069: 
1069: 
1070: 
1071: 
1072: 
1073: 
1074: 
1075: 
1076: 
1077: 
1078: 
1078: 
1079: 
1080: 
1081: 
1082: 
1083: 
1084: 
1085: 
1085: 
1086: 
1087: 
1088: 
1089: 
1089: 
1090: 
1091: 
1092: 
1093: 
1094: 
1095: 
1095: 
1096: 
1097: 
1098: 
1099: 
1099: 
1100: 
1101: 
1102: 
1103: 
1104: 
1105: 
1106: 
1107: 
1108: 
1108: 
1109: 
1110: 
1111: 
1112: 
1113: 
1114: 
1115: 
1116: 
1117: 
1118: 
1119: 
1119: 
1120: 
1121: 
1122: 
1123: 
1124: 
1125: 
1126: 
1127: 
1128: 
1129: 
1129: 
1130: 
1131: 
1132: 
1133: 
1134: 
1135: 
1136: 
1137: 
1138: 
1139: 
1139: 
1140: 
1141: 
1142: 
1143: 
1144: 
1145: 
1146: 
1147: 
1148: 
1148: 
1149: 
1150: 
1151: 
1152: 
1153: 
1154: 
1155: 
1156: 
1157: 
1158: 
1158: 
1159: 
1160: 
1161: 
1162: 
1163: 
1164: 
1165: 
1165: 
1166: 
1167: 
1168: 
1169: 
1169: 
1170: 
1171: 
1172: 
1173: 
1174: 
1175: 
1176: 
1177: 
1177: 
1178: 
1179: 
1180: 
1181: 
1182: 
1183: 
1184: 
1185: 
1185: 
1186: 
1187: 
1188: 
1189: 
1189: 
1190: 
1191: 
1192: 
1193: 
1194: 
1195: 
1195: 
1196: 
1197: 
1198: 
1199: 
1199: 
1200: 
1201: 
1202: 
1203: 
1204: 
1205: 
1206: 
1207: 
1208: 
1208: 
1209: 
1210: 
1211: 
1212: 
1213: 
1214: 
1215: 
1216: 
1217: 
1218: 
1218: 
1219: 
1220: 
1221: 
1222: 
1223: 
1224: 
1225: 
1226: 
1227: 
1228: 
1229: 
1229: 
1230: 
1231: 
1232: 
1233: 
1234: 
1235: 
1236: 
1237: 
1238: 
1239: 
1239: 
1240: 
1241: 
1242: 
1243: 
1244: 
1245: 
1246: 
1246: 
1247: 
1248: 
1249: 
1250: 
1251: 
1252: 
1253: 
1254: 
1255: 
1255: 
1256: 
1257: 
1258: 
1259: 
1259: 
1260: 
1261: 
1262: 
1263: 
1264: 
1265: 
1265: 
1266: 
1267: 
1268: 
1269: 
1269: 
1270: 
1271: 
1272: 
1273: 
1274: 
1275: 
1275: 
1276: 
1277: 
1278: 
1279: 
1279: 
1280: 
1281: 
1282: 
1283: 
1284: 
1285: 
1285: 
1286: 
1287: 
1288: 
1289: 
1289: 
1290: 
1291: 
1292: 
1293: 
1294: 
1295: 
1295: 
1296: 
1297: 
1298: 
1299: 
1299: 
1300: 
1301: 
1302: 
1303: 
1304: 
1305: 
1306: 
1307: 
1308: 
1308: 
1309: 
1310: 
1311: 
1312: 
1313: 
1314: 
1315: 
1316: 
1317: 
1318: 
1318: 
1319: 
1320: 
1321: 
1322: 
1323: 
1324: 
1325: 
1326: 
1327: 
1328: 
1329: 
1329: 
1330: 
1331: 
1332: 
1333: 
1334: 
1335: 
1336: 
1337: 
1338: 
1338: 
1339: 
1340: 
1341: 
1342: 
1343: 
1344: 
1345: 
1345: 
1346: 
1347: 
1348: 
1349: 
1349: 
1350: 
1351: 
1352: 
1353: 
1354: 
1355: 
1355: 
1356: 
1357: 
1358: 
1359: 
1359: 
1360: 
1361: 
1362: 
1363: 
1364: 
1365: 
1365: 
1366: 
1367: 
1368: 
1369: 
1369: 
1370: 
1371: 
1372: 
1373: 
1374: 
1375: 
1375: 
1376: 
1377: 
1378: 
1379: 
1379: 
1380: 
1381: 
1382: 
1383: 
1384: 
1385: 
1385: 
1386: 
1387: 
1388: 
1389: 
1389: 
1390: 
1391: 
1392: 
1393: 
1394: 
1395: 
1395: 
1396: 
1397: 
1398: 
1399: 
1399: 
1400: 
1401: 
1402: 
1403: 
1404: 
1405: 
1406: 
1407: 
1408: 
1408: 
1409: 
1410: 
1411: 
1412: 
1413: 
1414: 
1415: 
1416: 
1417: 
1417: 
1418: 
1419: 
1420: 
1421: 
1422: 
1423: 
1424: 
1425: 
1425: 
1426: 
1427: 
1428: 
1429: 
1429: 
1430: 
1431: 
1432: 
1433: 
1434: 
1435: 
1436: 
1436: 
1437: 
1438: 
1439: 
1440: 
1440: 
1441: 
1442: 
1443: 
1444: 
1445: 
1445: 
1446: 
1447: 
1448: 
1449: 
1449: 
1450: 
1451: 
1452: 
1453: 
1454: 
1455: 
1455: 
1456: 
1457: 
1458: 
1459: 
1459: 
1460: 
1461: 
1462: 
1463: 
1464: 
1465: 
1465: 
1466: 
1467: 
1468: 
1469: 
1469: 
1470: 
1471: 
1472: 
1473: 
1474: 
1475: 
1475: 
1476: 
1477: 
1478: 
1479: 
1479: 
1480: 
1481: 
1482: 
1483: 
1484: 
1485: 
1485: 
1486: 
1487: 
1488: 
1489: 
1489: 
1490: 
1491: 
1492: 
1493: 
1494: 
1495: 
1495: 
1496: 
1497: 
1498: 
1499: 
1499: 
1500: 
1501: 
1502: 
1503: 
1504: 
1505: 
1506: 
1507: 
1508: 
1508: 
1509: 
1510: 
1511: 
1512: 
1513: 
1514: 
1515: 
1516: 
1517: 
1517: 
1518: 
1519: 
1520: 
1521: 
1522: 
1523: 
1524: 
1525: 
1525: 
1526: 
1527: 
1528: 
1529: 
1529: 
1530: 
1531: 
1532: 
1533: 
1534: 
1535: 
1536: 
1536: 
1537: 
1538: 
1539: 
1540: 
1540: 
1541: 
1542: 
1543: 
1544: 
1545: 
1545: 
1546: 
1547: 
1548: 
1549: 
1549: 
1550: 
1551: 
1552: 
1553: 
1554: 
1555: 
1555: 
1556: 
1557: 
1558: 
1559: 
1559: 
1560: 
1561: 
1562: 
1563: 
1564: 
1565: 
1565: 
1566: 
1567: 
1568: 
1569: 
1569: 
1570: 
1571: 
1572: 
1573: 
1574: 
1575: 
1575: 
1576: 
1577: 
1578: 
1579: 
1579: 
1580: 
1581: 
1582: 
1583: 
1584: 
1585: 
1585: 
1586: 
1587: 
1588: 
1589: 
1589: 
1590: 
1591: 
1592: 
1593: 
1594: 
1595: 
1595: 
1596: 
1597: 
1598: 
1599: 
1599: 
1600: 
1601: 
1602: 
1603: 
1604: 
1605: 
1606: 
1607: 
1608: 
1608: 
1609: 
1610: 
1611: 
1612: 
1613: 
1614: 
1615: 
1616: 
1616: 
1617: 
1618: 
1619: 
1620: 
1621: 
1622: 
1623: 
1624: 
1625: 
1625: 
1626: 
1627: 
1628: 
1629: 
1629: 
1630: 
1631: 
1632: 
1633: 
1634: 
1635: 
1636: 
1636: 
1637: 
1638: 
1639: 
1640: 
1640: 
1641: 
1642: 
1643: 
1644: 
1645: 
1645: 
1646: 
1647: 
1648: 
1649: 
1649: 
1650: 
1651: 
1652: 
1653: 
1654: 
1655: 
1655: 
1656: 
1657: 
1658: 
1659: 
1659: 
1660: 
1661: 
1662: 
1663: 
1664: 
1665: 
1665: 
1666: 
1667: 
1668: 
1669: 
1669: 
1670: 
1671: 
1672: 
1673: 
1674: 
1675: 
1675: 
1676: 
1677: 
1678: 
1679: 
1679: 
1680: 
1681: 
1682: 
1683: 
1684: 
1685: 
1685: 
1686: 
1687: 
1688: 
1689: 
1689: 
1690: 
1691: 
1692: 
1693: 
1694: 
1695: 
1695: 
1696: 
1697: 
1698: 
1699: 
1699: 
1700: 
1701: 
1702: 
1703: 
1704: 
1705: 
1706: 
1707: 
1708: 
1708: 
1709: 
1710: 
1711: 
1712: 
1713: 
1714: 
1715: 
1716: 
1716: 
1717: 
1718: 
1719: 
1720: 
1721: 
1722: 
1723: 
1724: 
1725: 
1725: 
1726: 
1727: 
1728: 
1729: 
1729: 
1730: 
1731: 
1732: 
1733: 
1734: 
1735: 
1736: 
1736: 
1737: 
1738: 
1739: 
1740: 
1740: 
1741: 
1742: 
1743: 
1744: 
1745: 
1745: 
1746: 
1747: 
1748: 
1749: 
1749: 
1750: 
1751: 
1752: 
1753: 
1754: 
1755: 
1755: 
1756: 
1757: 
1758: 
1759: 
1759: 
1760: 
1761: 
1762: 
1763: 
1764: 
1765: 
1765: 
1766: 
1767: 
1768: 
1769: 
1769: 
1770: 
1771: 
1772: 
1773: 
1774: 
1775: 
1775: 
1776: 
1777: 
1778: 
1779: 
1779: 
1780: 
1781: 
1782: 
1783: 
1784: 
1785: 
1785: 
1786: 
1787: 
1788: 
1789: 
1789: 
1790: 
1791: 
1792: 
1793: 
1794: 
1795: 
1795: 
1796: 
1797: 
1798: 
1799: 
1799: 
1800: 
1801: 
1802: 
1803: 
1804: 
1805: 
1806: 
1807: 
1808: 
1808: 
1809: 
1810: 
1811: 
1812: 
1813: 
1814: 
1815: 
1816: 
1816: 
1817: 
1818: 
1819: 
1820: 
1821: 
1822: 
1823: 
1824: 
1825: 
1825: 
1826: 
1827: 
1828: 
1829: 
1829: 
1830: 
1831: 
1832: 
1833: 
1834: 
1835: 
1836: 
1836: 
1837: 
1838: 
1839: 
1840: 
1840: 
1841: 
1842: 
1843: 
1844: 
1845: 
1845: 
1846: 
1847: 
1848: 
1849: 
1849: 
1850: 
1851: 
1852: 
1853: 
1854: 
1855: 
1855: 
1856: 
1857: 
1858: 
1859: 
1859: 
1860: 
1861: 
1862: 
1863: 
1864: 
1865: 
1865: 
1866: 
1867: 
1868: 
1869: 
1869: 
1870: 
1871: 
1872: 

```

Further, you will get to explore combining various tables with the help of ANSI queries and learn about the UNION operators. Furthermore, the project will also teach you how to deal with column ambiguously defined errors.

21. SQL Project for Data Analysis using Oracle Database-Part 3

This project will discuss various aggregate functions (Min, Max, Count, Avg). You will explore clauses and the basics of subqueries. You will also learn about the inline view and accumulating values in a single row.



The project will guide you in performing data analysis with the help of group-by and exit command. It will also teach you about filtering aggregated data.

22. SQL Project for Data Analysis using Oracle Database-Part 4

Along with polishing your basics of SQL commands, this project guides you through applying the COUNT command and its variations. You will learn how to perform data analysis in SQL with the help of WITH statement.

**SQL Project for Data Analysis
using Oracle Database-Part 4**

```

SELECT * FROM DEPARTMENTS;
SELECT * FROM EMPLOYEES;
SELECT * FROM JOBS;
SELECT * FROM JOB_HISTORY;
SELECT * FROM LOCATIONS;
SELECT * FROM COUNTRIES;
SELECT * FROM NATION_FUNCTIONAL_EQUIPMENT;
--PLS ALL THE ANDROID APPS ARE IN THE IMAGE
  
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	PERCENTILE
1	Lisa Stevens	Ring	LS230@ORCL.COM	515.123.4567	17-JUN-01	AD_DIR	24000	0	100012	80	DATA12
2	Ulli Beinecke	Bonnie	ULLI0008@ORCL.COM	515.123.4568	22-OCT-01	AD_VP	11000	0	100012	80	DATA12
3	Ulli Lamm	De Niro	ULLI0009@ORCL.COM	515.123.4569	17-OCT-01	AD_VP	11000	0	100012	80	DATA12
4	Ulli Tietzsch	Rosalia	ULLI0010@ORCL.COM	515.123.4570	12-JUL-01	IT_PROG	6000	0	100012	80	DATA12

In this project, you will perform categorization for the given dataset using SQL commands. Additionally, you will learn about the ROWNUM clause and the View statement.



Further interested in exploring [applications of SQL](#) in the Big Data domain? In that case, we suggest you look at the [ProjectPro](#) repository of Big Data and [Data Science Projects](#). The repository has solved projects that will prepare you for your next job. And if you are a working professional, you can refer to these projects to enhance your productivity at work and develop **problem-solving skills**. Also, we have a 'Live Cloud Lab' feature for you, which offers an **active learning environment** to anyone willing to learn by practicing our solved projects.

SQL Project Ideas FAQs

How do I write SQL projects on my resume?

- Set up an account on Github and create a 'SQL Projects' repository.
- Upload all the files for each SQL project in different folders.
- Add hyperlinks to each folder in your resume.

What skills can you develop by creating SQL projects?

Working on SQL projects will help you [develop data analysis](#) skills. It will also help you learn how data is stored across different databases and combine them to build data analysis projects.

What are some SQL projects?

Here are some SQL projects you should explore-

- House Property Sales Analysis
- Bookstore Analysis
- Time Series Analysis
- Sentiment Analysis
- Online Retail Application Database, etc.

How do I create a SQL project?

You can create a SQL project using the following steps-

- Select the solution in Solution Explorer.
- Select Add from the File menu, then New Project.
- Select a project type in the New Project dialogue box.
- Select a template from the Templates box. Under the Templates box, you will see a simple overview of the selected project template.
- Fill in the name of the script project you'd want to make.

- Choose a location from the list or enter the location where you wish to create your project.
- The Project Location dialogue box appears, enabling you to browse to a new directory to save the project.
- To create a solution in Solution Explorer, select Create new Solution. To add the new project to the solution already active in Solution Explorer, select Add to Solution.
- Toggle the (Solution) Name text box on or off. This option creates a new directory for your project and solution using your specified name.
- Enter the name of the new solution where you want to launch your project.
- Click OK.

Can we do projects on SQL?

Yes, you can do projects on SQL, and SQL is one of the most popular choices for building data analysis projects.\

Can SQL get you a job?

Yes, SQL can get you a job. There are so many career fields that require SQL as an essential skill, such as [Business Analyst](#), Database Administrator, Data Scientist, Quality Assurance Tester, etc.

Should I learn Python or SQL first?

You should learn SQL first and then move on to learning Python. This is mainly because almost every industry involves data, and SQL allows you to work efficiently with data.

How long does it take to learn SQL to get a job?

It takes around a week or two to learn the SQL basics, after which you can start practicing working with SQL databases. Once you are comfortable with the basics of SQL, you can move to advanced-level SQL queries, which you can master within one or two months.

What is the salary of a SQL developer?

The average salary of a SQL Developer is ₹4,40,482 in India and \$88,938 in the United States.

Is SQL worth learning in 2022?

Yes, SQL is worth learning in 2022. This is mainly because-

- SQL isn't just for programmers. It allows sales and [marketing](#) teams in organizations to review their data quickly.
- SQL queries can efficiently conduct various tasks, such as retrieving columns from an extensive database based on particular filter criteria and modifying it.
- SQL can help extract relevant information from a data pool when dealing with massive data sets.

What is SQL project?

A SQL project is an end-to-end implementation of a database solution involving various steps in the project lifecycle from Database Table Coding, Database Triggers Development, Stored Procedure Implementation, Query Development, Query Review, and Optimization.

Is SQL used in project management?

Yes, SQL is used in project management.

[PREVIOUS](#)[NEXT](#)

Your Data Skills Need to Get Stronger
And We Have The Projects Ready

GET ACCESS TO SOLVED PROJECTS

This advertisement features a blue-toned background with a futuristic theme. On the right side, there's a 3D rendering of a person running towards a large smartphone. The phone screen displays a digital interface with a globe and data visualizations. Another person is seen interacting with a floating computer monitor. The overall message is that the viewer's data skills need to be strengthened, and the company offers solved projects to help achieve that.

About the Author



Manika

Manika Nagpal is a versatile professional with a strong background in both Physics and Data Science. As a Senior Analyst at ProjectPro, she leverages her expertise in data...

[Meet The Author >](#)

Start Your First Project

Learn By Doing

Get access to 250+ real world industry projects in Data Science and Big Data

[START PROJECT](#)

Trending Blog Categories

- [Artificial Intelligence Blogs](#)
- [AWS Blogs](#)
- [Azure Blogs](#)
- [Data Science Blogs](#)

- Machine Learning Blogs
- Data Engineering Blogs
- Big Data Blogs

Project Categories

Machine Learning Projects

Data Science Projects

Deep Learning Projects

Big Data Projects

Apache Hadoop Projects

Apache Spark Projects

[Show more](#)

Projects

Walmart Sales Forecasting Data Science Project

BigMart Sales Prediction ML Project

Music Recommender System Project

Credit Card Fraud Detection Using Machine Learning

Resume Parser Python Project for Data Science

Time Series Forecasting Projects

[Show more](#)

Blogs

Machine Learning Projects for Beginners with Source Code

Data Science Projects for Beginners with Source Code

Big Data Projects for Beginners with Source Code

IoT Projects for Beginners with Source Code

Data Analyst vs Data Scientist

Data Science Interview Questions and Answers

Show more

Recipes

Search for a Value in Pandas DataFrame

Pandas Create New Column based on Multiple Condition

LSTM vs GRU

Plot ROC Curve in Python

Python Upload File to Google Drive

Optimize Logistic Regression Hyper Parameters

Show more

Tutorials

PCA in Machine Learning Tutorial

PySpark Tutorial

Hive Commands Tutorial

MapReduce in Hadoop Tutorial

[Apache Hive Tutorial -Tables](#)[Linear Regression Tutorial](#)[Show more](#)

ProjectPro

© 2023 Iconiq Inc.

[About us](#)

[Contact us](#)

[Privacy policy](#)

[User policy](#)

[Write for ProjectPro](#)