

30 DAYS

# SQL

MASTER SQL FOR FREE IN JUST 30 DAYS



Most Asked Questions by MAANG Companies



## \*DISCLAIMER\*

Everyone has their own way of learning. This doc will help you in **mastering elements of SQL** in 30 days to build a strong understanding.



## —• Week-1

# BASIC SQL- Introduction

First week learn basics of SQL: what is SQL, application, database, tables, data types, create, update, delete, filter, operators and sort values.

## SQL TOPICS

- Introduction to SQL
- Data Types, Primary-Foreign Keys & Constraints
- Install sql: postgre sql and pgadmin
- CREATE Database & CREATE Table
- INSERT UPDATE, DELETE & ALTER Table
- SELECT Statement & WHERE Clause + Operators + Order By + Limit
- W3schools website to learn SQL



## SAMPLE QUESTION

- What is SQL and Database, example primary key vs foreign key, types of operators etc.
- SELECT list of employees whose salary ranges between 2L to 3L
- Write a query to retrieve the list of employees from the same city
- Query to find the null values in the Employee table



## —• Week-2

# INTERMEDIATE SQL

Second week learn: Import file, SQL functions & types, String functions, Aggregate functions, Group By, Having clause and date time functions

## SQL TOPICS

- Import Excel (CSV) File
- Functions in SQL + String Functions
- Aggregate Functions
- Group By and Having Clause
- Date Time Function + Extract Clause
- W3schools website to learn SQL



# Sample Questions

- What is a Function in SQL, types of functions, user defined function, how to import files, explain String/Aggregate functions, what is group by and its use, where vs having, etc.
- Find male and female employees' ratio; fetch 50% records from the Employee table
- Query to fetch the employee's salary but replace the LAST 2 digits with 'XX'
- Query to find all the Employee names whose name starts/ends/ contains
- Write a query to find and remove duplicate records from a table



## —• Week-3

### ADVANCE SQL

Third week learn: SQL Joins, types of joins, Union, Union all, Sub query (with operators) and window functions with examples (Rank, Row Number, Lead/Lag, etc)

### SQL TOPICS

- Complete SQL JOINS
- Union & Union ALL + SELF JOIN
- Sub Query
- Window Function
- W3schools website to learn SQL

### Sample Questions

- What is a **SQL JOIN**, types of JOINS, UNION vs UNION ALL, SELF JOIN, CROSS JOIN, Sub query, window functions & examples, Aggregate vs window function etc.



- Explain row number, rank, dense rank and ntile functions.
- Find the cumulative sum of employee's salary; fetch even & odd rows from Emp table
- Find Nth highest salary from Emp table without using the TOP/LIMIT keywords
- Find the total count of employees joined each year in the company/ find monthly sales



## —• Week-4

### PRO SQL

Finally, fourth week learn: Case Statement/Expressions, Common table Expression (CTEs), WITH Clause, Recursive CTE, Store Procedure, Triggers. Now practice as much as you can!

### SQL TOPICS

- Case Statement/Expression
- Common Tables Exp CTEs in SQL
- Recursive Queries/CTE
- Stored Procedure
- Triggers in SQL

### Sample Questions

- Explain CTE and it's use cases, what is WITH clause, what is recursive CTE, explain CASE expressions, Stored procedure and use cases, Explain triggers, etc.



- Find the 2nd & 3rd highest salary for each project from the Emp table
- Create groups based on salary column (low, med, high) based on salary range
- Query to pivot the data in the Employee table and retrieve the total salary for each city.
- Find the total monthly salary based on their team/project they are working in
- write a stored procedure, to retrieve the name of the employee based on their Id using the output parameter as @Name





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Course is very well structured and streamlined to crack any MAANG company .

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