



# SQL MASTERY COURSE

## Let's talk to the databases !!

Master SQL Skills and take your career to the next level !!  
We just need your 35 hours from your life..



15000+ Happy  
Students



Best in Online & Offline  
Training Experience



Industry Recognized  
Expert Mentors

# Program Curriculum

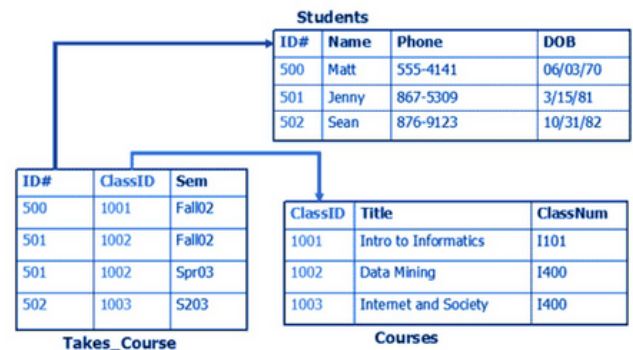


## Lesson 1

### Introduction to SQL & Big Data Fundamentals

- What is Data & Big Data ?
- Overview of Database and DBMS
- All about RDBMS
- Overview About SQL & Its Prerequisite
- What is the Select & From Clause ?
- What is the Where Clause ?
- AND & OR Operator
- IN & NOT IN Operator
- BETWEEN & NOT BETWEEN Operator
- IS NULL & IS NOT NULL Operator
- LIKE & NOT LIKE Operator & Regular Expressions

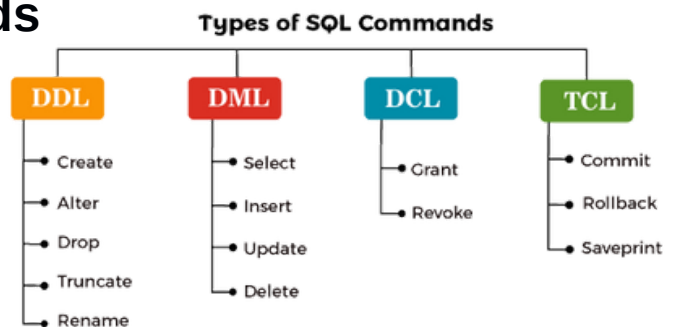
#### Relational Database Management System



## Lesson 2

### Modifying Data with SQL Commands

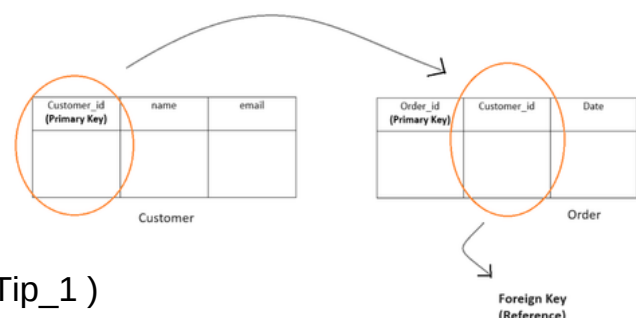
- Data Types
- Realtime Challenges in Dealing With Data Types
- Overview About DQL, DML & DDL Commands
- Create Clause ( DDL )
- Insert Clause ( DML )
- Alter & Update
- Drop in SQL ( DDL )
- Delete & Truncate
- Differences Between ( Delete & DROP ) ( Alter & Update ) ( Delete & TRUNCATE )
- Overview of TCL & DCL Commands



## Lesson 3

### Introduction to Constraints in SQL

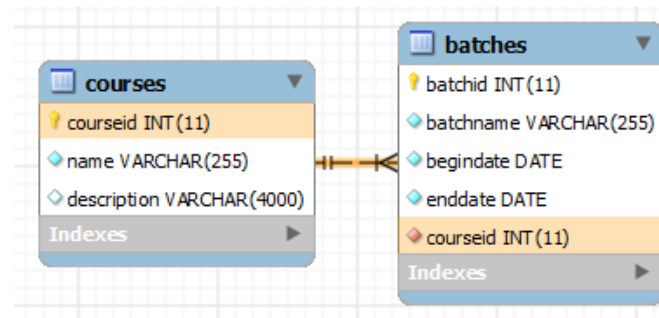
- What is Constraints & Why they are needed ?
- What is NULL Constraint ?
- How to Describe a Table & Check the Constraints ( Tip\_1 )
- All About UNIQUE Constraint
- How to Describe a Table & Check the Constraints ( Tip\_2 )



# Program Curriculum



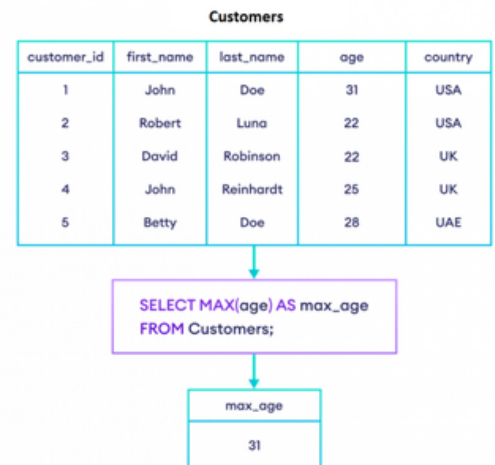
- All about Primary key Constraint
- Primary Key with Example & Real-time Challenges
- All about the Foreign key Constraint
- Referential Integrity Property
- All about the Check Constraint
- All about the Default Constraint



## Lesson 4

### Data Summarization & Analysis with Aggregate & Group by Functions

- Overview of SUM & AVG Function
- Overview of MIN & MAX Function
- Overview of COUNT & COUNTD Function
- All About Group by Clause
- All About Having Clause
- All about Order by Clause
- Difference Between Where & Having in SQL



## Lesson 5

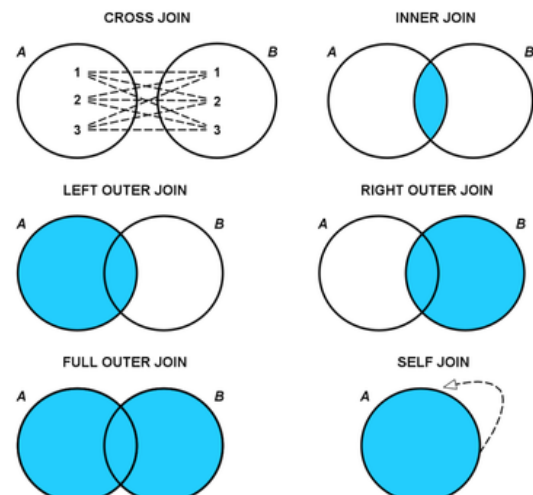
### Controlling Results with Top, Distinct, Offset & Limit Clauses

- All about Top Clause
- All about LIMIT With OFFSET Clause
- All about OFFSET with Fetch Clause

## Lesson 6

### Working with Multiple Tables - Advanced Table Joining and Union Operations

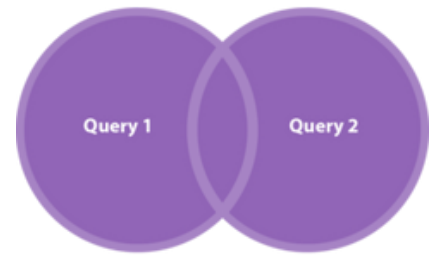
- What is Joins & Why We Need Joins ?
- All about the Inner Join
- All about the Left Join
- All about the Right Join
- All about the Full Outer Join
- All about the Cross Join in SQL



# Program Curriculum



- Overview of Self Join & Interview Ques for Joins
- All about UNION & UNION ALL
- Difference between UNION & UNION ALL and UNION & JOINS



## Lesson 7

### Unlocking Data: Mastering Subqueries in SQL

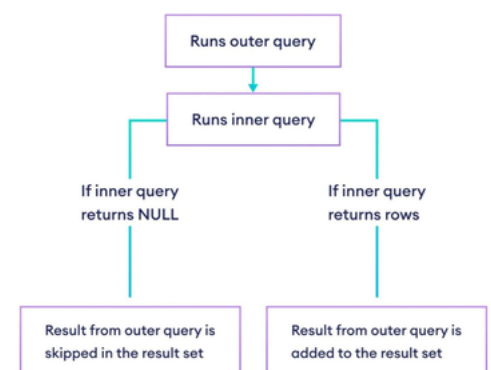
- All about Sub-query in SQL
- Sub-query Practical & Interview Scenarios
- All about the MINUS & EXCEPT Operator

## Lesson 8

### Navigating NULL Values: Understanding NVL, COALESCE, IF\_NULL, NULL\_IF, and CASE in SQL

- All about NVL Function
- What is the Coalesce Function ?
- What is IFNULL & NULLIF Function ?
- Case When Statement in SQL
- Order of Execution

Working of SQL EXISTS operator

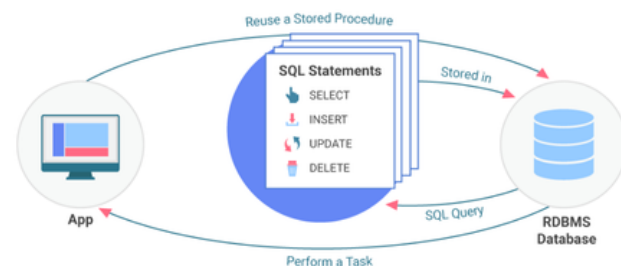


## Lesson 9

### Understanding Stored Procedures and Views

- What is the Stored Procedure ?
- Examples of Stored Procedures
- Merits & Demerits of Stored Procedures
- Stored Procedure with IN Parameter in SQL
- What is Views in SQL
- Examples of Views
- Merits of Views & Key Takeaways
- Simple Vs Complex View & Overview of Materialised View in SQL
- Difference Between Stored Procedures & Views in SQL

Stored Procedures

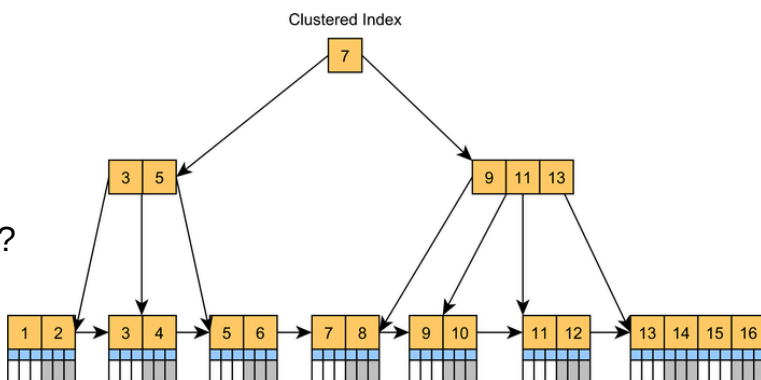




## Lesson 10

### Exploring SQL Indexes

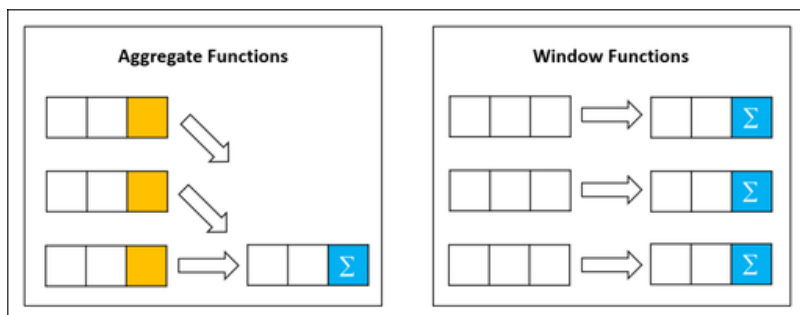
- What is an Index and Why they are needed ?
- Overview of Clustered Index
- What Exactly is the Clustered Index ?
- Overview of Non-Clustered Index
- Practical - Non-Clustered Index
- Difference Between the Clustered Index & Non Clustered Index (Important)
- Math's about Index & Interview Ques Asked



## Lesson 11

### Empowering Queries: Harnessing the Window Functions

- Concept of Aggregate Functions
- Introduction About Window Functions
- All About Over Clause
- All about Partition Clause
- Conceptual Approach
- All About Row\_number
- All About RANK Function
- All About DENSE\_RANK Function
- Overview About Lead & Lag Functions
- Window Functions & Aggregate Function with Knowledge Check



## Lesson 12

### Exploring the Versatility of Common Table Expressions in SQL

- Overview of CTE
- Brief About CTE & Recursive
- CTE Vs View

### Download & Install SQL

```
WITH ← WITH
engineers ← CTE name as (
  select *
  from employees
  where dept='Engineering' ← CTE Body
)
select *
from engineers ← CTE Usage
where ...
```

[Click here for Download](#)

# CERTIFICATE OF **ACHIEVEMENT**



## CERTIFICATE

OF ACHIEVEMENT

PROUDLY PRESENTED TO

*Name Surname*

HAS SUCCESSFULLY COMPLETED THE ONLINE COURSE

### SQL MASTERY

He/She has excelled at SQL Mastery by successfully completing all the assignments & modules associated with the program.

DATE:

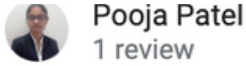


*Talun Sachdeva*

AUTHORIZED SIGNATORY



# OUR TESTIMONIALS



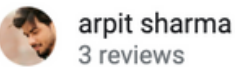
★★★★★ 5 days ago **NEW**

Under **Tarun's guidance**, I had learn SQL, and his explanations are exceptionally clear. If you're keen on mastering SQL concepts, I highly recommend considering DataMantra.



★★★★★ a week ago **NEW**

I have taken online training on SQL from Data Mantra. Course content is very relevant and practicals focused. Trainer is well versed in industry requirements thus training imparted is good to start working on industry projects.



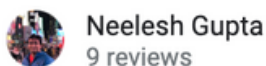
★★★★★ a week ago **NEW**

Participating in Data Mantra Course was truly enriching. The curriculum was meticulously designed, encompassing crucial concepts and techniques essential for excelling in SQL and Tableau, Alteryx, python, power bi. **Mr. Tarun**, the instructor, demonstrated exceptional expertise and offered outstanding support throughout the course.



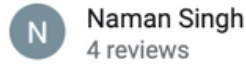
★★★★★ a week ago **NEW**

Learning SQL from datamantra is such a great experience.



★★★★★ 4 days ago **NEW**

**Tarun** hands on experience in machine learning is biggest advantage for students learning from him, he explain the concepts in depth and make sure to resolve each and every doubt of his students, I will refer him to increase your ML understanding



★★★★★ a week ago **NEW**

It was an incredibly enriching experience with Data mantra. The curriculum was well-structured and comprehensive, covering all the essential concepts and techniques needed to excel in both SQL and Tableau. The instructor **Mr. Tarun** were highly knowledgeable and provided excellent support throughout the course.

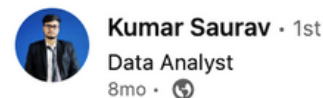


It gives me immense pleasure to share that I have graduated from the Master's Program in Business Analysis from Simplilearn by completing all the mandatory courses which were part of the curriculum. I thank Simplilearn and my course instructors Vaibhav Pandey, **Tarun Sachdeva** & Vaibhav Rajvanshi for conducting the training.

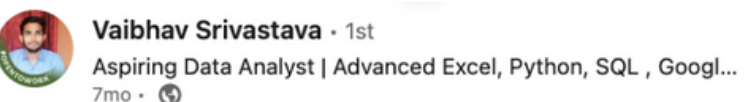


★★★★★ a week ago **NEW**

I had a great experience studying SQL at Data Mantra, especially with the teaching style of **Tarun sir**. The curriculum is exceptionally easy to grasp, and unique teaching method makes it even simpler to comprehend concepts ranging from basic to advanced levels. He use of real-life examples enhances understanding and real life application. Highly recommended for anyone looking to master SQL effectively 🙌.



I'm bursting with excitement to share that I've just completed the Complete SQL Mastery offered by Jobaaj Learnings. This course was packed with valuable information. Thankyou Jobaaj Learnings and **Tarun Sachdeva** for providing this wonderful course.



Dear Friends very happy on sharing this Gold Badges in Hacker Rank SQL

Very very thanks to Rakshit Vig Sir and **Tarun Sachdeva** Sir for making such kind of value for me

# MEET YOUR TUTOR



**Tarun Sachdeva**  
Data Science Expert

Founder DataMantra, Instructor

[LinkedIn](#)

I am based out of **Belgium**, working as Freelancer across the world as I completed my post graduation **MSc in Data Science and AI from Top College of Europe - EDHEC Business School, France**, and I love to make new relationships across the world. In the meantime, I love to write about my travel experiences and blogs on Medium.

With nearly **10 years** of diverse professional experience spanning the Finance, Manufacturing, Retail and Telecom sectors, I have honed my skills and expertise in various aspects of data analysis.

Being **Tableau** my first love, I am an expert in extracting and transforming data efficiently through **SQL** and utilising ETL tools like **Alteryx**. Furthermore, I have great knowledge of **Machine learning & Deep Learning algorithms** too.

My recent role was **Senior Financial Data Analyst in Credit & Risk Controllership at American Express**. I am a Freelancer now and love to teach the students.

Are you ready to take the next step in your career and join our hands-on training program?

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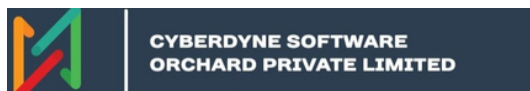
# OUR STUDENTS ARE PLACED IN

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# OUR GLOBAL PARTNERS

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# OUR VISION

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Help & Guide students globally with innovative, personalized education for empowered learning and especially in changing the Domain.

# OUR MISSION

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Empowering individuals worldwide, our mission is to provide accessible and top-quality education, fostering skills that drive career success and personal growth.

# OUR STORY

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Our story is one of dedication to shaping futures, breaking barriers, and creating a dynamic and easy learning environment for every student and Corporate professionals



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