



SQL & Linux SYLLABUS:

❖ **Introduction to SQL**

- ❖ What is a database and why do we need SQL?
- ❖ Top 5 problems in Excel and why using SQL solves this problem
- ❖ Should we import from Excel and why? How it is done?
- ❖ Create a link to Excel spread sheet with SQL?
- ❖ Tables & Queries.
- ❖ Fundamental of DDL, DML, DQL.

❖ **How to Create Tables 101**

- ❖ SQL Data Types.
- ❖ Primary Keys.
- ❖ Null values and Not Null Values.
- ❖ Auto Increment.
- ❖ How to Create a Basic Query.
- ❖ Use the Where clause.
- ❖ Conditional statements.
- ❖ Multiple conditions.
- ❖ Comparison Operators.
- ❖ Logic Values.
- ❖ Null Values.
- ❖ Patterns also known as Wildcard characters.
- ❖ Compare Column Values.

❖ **Advanced Queries**

- ❖ Distinct Values.



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- ❖ Top Values.
- ❖ Date Functions.
- ❖ Date Calculations
- ❖ Aggregate Functions.
- ❖ String Functions.
- ❖ Sort Data.
- ❖ Rank Data.
- ❖ Save a Query.
- ❖ Execute a Query.
- ❖ Modify a Saved Query.

- ❖ **Data Wrangling**
- ❖ Group Data.
- ❖ Filtering Grouped Data.
- ❖ Summarize Group Data.
- ❖ Pivot and Unpivot Operators.

- ❖ **Data Analytics**
- ❖ Joins.
- ❖ Inner Join.
- ❖ Left Join.
- ❖ Full Outer Join.
- ❖ Self-Join.
- ❖ Unions.
- ❖ Union all.



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- ❖ Except and Intersect.
- ❖ Presenting and Making Sense of Query Results.
- ❖ Saving the Query Results and Exporting.
- ❖ Generating Reports.

❖ **Tables & Queries**

- ❖ Importing and Exporting Data.
- ❖ Update Data.

❖ **Queries**

- ❖ Distinct Values.
- ❖ Top Values.
- ❖ Sub queries with “In”
- ❖ Inline Views.

❖ **Views**

- ❖ Create a Simple View.
- ❖ With Check Option.

❖ **Locks and Transactions**

- ❖ Exclusive Table Locks.
- ❖ Shared Table Locks.
- ❖ Using Variables.
- ❖ Setting Variables with Selects.
- ❖ Select/Update Example.
- ❖ Simple Transactions.

❖ **MySQL Functions**



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- ❖ String to Date and Date Format.
- ❖ Control Flow Functions.
- ❖ Casting Functions.
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- ❖ **Stored Procedures**
- ❖ Introduction to Stored Procedures.
- ❖ Changing the Delimiter.
- ❖ Editing a Stored Procedure.
- ❖ Variable Scope.
- ❖ A Data Generating Procedure.
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- ❖ **Triggers**
- ❖ Introduction to Triggers.
- ❖ Validating Triggers.
- ❖ Triggers and Transactions.
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- ❖ **User Defined Functions**
- ❖ Functions vs Procedures.
- ❖ User-Defined Functions.
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- ❖ **Windows Function.**
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- ❖ **Normalisations.**
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- ❖ **Linux Command**
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- ❖ **Monitoring Tools**
- ❖ Dyantrace tool.
- ❖ Control M tool.
- ❖ Graphna tool.



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❖ **Ticketing Tools**

- ❖ Jira Tool.
- ❖ Service Now Tool.

❖ **Banking Applications**

- ❖ Net banking.
- ❖ UPI Transaction.
- ❖ Fineone application.
- ❖ Falcon application.

❖ **Log Analysis.**

❖ **Shell Scripting.**

❖ **IIS Setup, Configuration, Deployments.**

❖ **APT testing using Postman or SoapUI.**

❖ **Trouble shooting & RCA documentation.**

❖ **Release management.**

❖ **Audit – IA & RBI.**

❖ **UAT & Production environment.**

❖ **Infra level, Appsec & VAPT.**

❖ **Real Time Projects flow, Resume Preparation & Mock Interviews.**

THANK YOU..