



DATA ANALYST WITH **MICROSOFT FABRIC**

STEP BY STEP APPROACHES TO BECOME A SUCCESSFUL AWS DATA ENGINEERING



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Course Curriculum

SQL



Power Bi



Azure



Azure Blob Storage



Azure Datalake Storage



Azure Data Factory



Azure SQL Database



Microsoft Fabric



About KSR Datavizon

Welcome to KSR Datavizon, we are your one-stop solution for all trending technologies. We provide in-depth knowledge about all trending courses with 100% placement guaranteed. You also will get hands-on demonstrations, interactive live sessions to learn and grow more on current trending courses like AI, Machine Learning, Data Science, Cloud Computing, Full stack Development, Cyber Security, Credit Risk modelling, DevOps, Azure,AWS, PowerBi, Web Development, Data Engineer, ADF, MSBI and Snowflakes and many more

You also get career guidance, soft skills sessions and resume building and all other interview tips to get settled in your dream career.

About Structured Query Language (SQL) for Data Science

Getting Started with SQL

SQL is a must have skill for every data science professional. This course will start from basics of databases and structured query language (SQL) and teach you every thing you would need in any data science profession including Writing and executing efficient Queries, Joining multiple tables and appending and manipulating tables

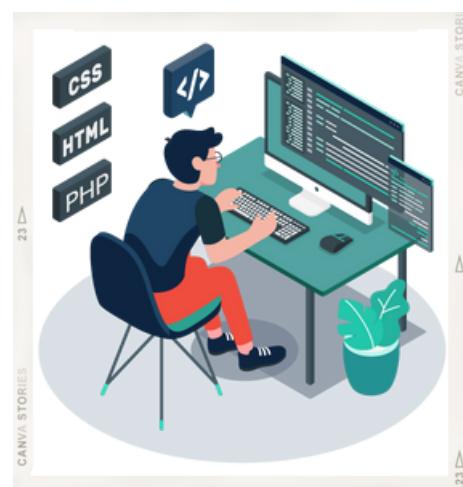
Key takeaways from Structured Query Language (SQL)for Data Science course:

- Start using MySQL – the most popular Database Management System
- Learn how to perform database tasks in SQL
- How to insert, update, and delete records from your database
- How to create reports and perform basic analysis using SQL's aggregate functions
- How to perform efficient joins to fetch your data from multiple tables



[END TO END ROAD MAP ON FULLSTACK POWER BI MS FABRIC](#)

[Click the Link](#)



Modules :



Introduction



- What is SQL?
- Brief history of SQL
- Why is SQL Important Popular Databases
- What Is MySQL?
- Introduction to MySQL & MySQL workbench
- Install MySQL Database Server
- Connect to MySQL Server

Module #2: Installing MySQL/ MariaDB



- 2.1 Introduction
- 2.2 Architecture: Client and Server
- 2.3 MySQL Distributions
- 2.4 Local Installation on Mac
- 2.5 Local Installation on Linux
- 2.6 Local Installation on Windows
- 2.7 Licensing
- 2.8 Accessing a remote MySQL server 2.9
Graphical user interfaces
- Exercise 2
- SQL – Installation Guide

Module #3: Getting started



- 3.1 Introduction
- 3.2 What exactly is SQL?
- 3.3 History of SQL
- 3.4.1 Connecting to MySQL on Mac
- 3.4.2 Connecting to MySQL on Windows
- 3.4.3 Connecting to MySQL on Linux
- 3.5 Types of Commands - DDL
- 3.6 Types of Commands - DML
- 3.7 Types of Commands - DCL
- 3.8 Exploring databases.
- 3.9 Creating tables.
- 3.10 Inserting data in tables.
- 3.11 SELECT Statement – Introduction
- 3.12 Datatypes in MySQL
- 3.13 NULL vs NOT NULL
- Exercise 3



Module #4: Modifying Databases structures



- 4.1 Introduction
- 4.2 Update command – Concept
- 4.3 Update command – Example
- 4.4 Delete command – Concept
- 4.5 Delete command – Example
- 4.6 Describe command – Concept
- 4.7 Describe command – Example
- 4.8 Alter command – Concept and Example
- Exercise 4



Module #5: Importing and Exporting Data



- 5.1 Introduction
- 5.2 Importing data from CSV to MySQL
- 5.3 Exporting data from MySQL to CSV
- 5.4 Backing up databases.
- 5.5 Restoring databases.
- Exercise 5
- Importing and Exporting Datasets – Troubleshooting Guide



Module #6: Data Analysis



- 6.1 Introduction
- 6.2 Counting Rows and Items
- 6.3 Aggregation Functions – SUM, AVG, STDDEV
- 6.4 Extreme Values Identification – MIN, MAX
- 6.5 Slicing data
- 6.6 Limiting data
- 6.7 Sorting data
- 6.8 Filtering Patterns
- 6.9 Groupings, Rolling up data and Filtering in Groups
- Exercise 6



Module #7: Real Life Project - Descriptive Analytics of Football Players



- 7.1 Introduction
- 7.2 Data Eyeballing
- 7.3 Data Dictionary
- 7.4 Questions we need answers of
- 7.5 Analyzing data and creating table structure
- 7.6 Loading data to our MySQL table
- 7.7 Data Analysis – Simple Queries
- 7.8 Data Analysis – Advanced Queries
- Football Players dataset (cleaned) for this Project

Module #8: Getting Data from Multiple Tables



- 8.1. Introduction
- 8.2. The need for joins
- 8.3. Different type of joins
- 8.4. The Left Join – Concept
- 8.5. The Left Join – Practical Example
- 8.6. The Inner Join
- 8.7. The Cross Join
- 8.8. The Right Join
- 8.9. The Self Join
- Why we need Subqueries
- Types of Subqueries
- What are Subqueries

Module #9: Introduction to Indexing



- 9.1. Introduction
- 9.2. Introduction to Indexing
- 9.3. How indexing works (basics)
- 9.4. Relationships
- 9.5. Types of Relationships
- 9.6. Table Constraints – PRIMARY KEY, FOREIGN KEY, UNIQUENESS and AUTO INCREMENT



Module #10: MySQL built-in functions



- 10.1 String functions - CONCAT
- 10.2 String functions – Case Conversion
- 10.3 String functions – Trimming Strings
- 10.4 String functions – Extracting Substrings
- 10.5 Date/ Time functions – Current date and time
- 10.6 Date/ Time functions – Extracting date and time from field
- 10.7 Date/ Time functions – Formatting date and time as Strings
- 10.8 Numeric functions
- SQL CheatSheet

Module #11: Manipulate MySQL from Python



- 11.1 Introduction
- 11.2 Setting up a virtual environment
- 11.3 Installing the required packages
- 11.4 Connecting to MySQL
- 11.5 Connecting to database table and pulling data
- 11.6 Querying the database- INSERT
- 11.7 Querying the database- DELETE
- 11.8 Querying the database- SEARCH
- 11.9 Querying the database- INDEXING
- 11.10 Notes and Resources

Real Life Project - Descriptive Analytics of Football Players

In this project we take a real life dataset of FIFA19 players and do descriptive analytics on it. We will go step by step as is done in real life by a data scientist - and we will walk you through the thought process of how data is understood, transformed into a useful format and how we get answers and insights from our data.



Power Bi

About Microsoft Power BI

Microsoft Power BI is considered as the leader amongst the Business Intelligence platforms, way ahead of other industry giants. With seamless integration with other Microsoft products, Power BI gives organizations easy access to connect to various data sources, crunch-numbers, prepare, view, and publish interactive dashboards. Power BI comes with Power Query and Data Modeling capabilities that allow users to clean, reshape, transform and link data from various sources with just a click.

Key takeaways from the Course

- Learn about the features of Power BI and explore how can it be integrated into the current business intelligence framework
- Know about some key concepts specific to Power BI (measures and calculated columns) for performing your tasks
- Create your first interactive business intelligence dashboard with Power BI
- Storytelling and data security using PowerBI
- Learn about transforming the data with Power Query in PowerBI

Course curriculum



Power Bi

Introduction to Business Intelligence and Dashboarding



- Introduction to the course
- What is Business Intelligence?
- Components of BI
- Quiz: Business Intelligence

Getting Started with Power BI



- What is Power BI?
- Installation of Power BI
- Introduction to Power BI Interface

Building your first Power BI Report



- Understanding the problem statement
- Importing Data in Power BI
- Data View and Formatting the Columns
- Building your first Power BI Report
- Chart Formatting and Other Visuals
- Uploading Reports to Power BI Service
- Quiz: Power BI Basics

Data Modeling in Power BI



- What is Data Modeling?
- Relationships and Cardinality
- Creating Calculated Columns
- Building Reports with Multiple Tables

Creating Measures using DAX



- Introduction to Measures
- Creating our first Measure
- Using Measures to perform row-by-row operations
- CALCULATE Function to create Measures
- Time Intelligence Functions
- Creating Reports with Measures
- Quiz: DAX

Course curriculum



Power Bi

Filters and Hierarchy in Power BI



- Filters in Power BI Reports
 - Hierarchy and Drill modes
 - Quiz: Filter and Slicers
-

Parameters and What-If Analysis in Power BI



- Introduction to Parameters
 - Parameters in Power BI
-

Elements of Data Storytelling



- Data Storytelling
 - Shapes and Buttons
-

Data Security and Data Refresh



- Managing Roles and RLS
 - Power BI Gateway for Data Refresh
-

Data Transformation with Power Query



- Introduction to Power Query
 - Cleaning Data with Power Query – Part I
 - Cleaning Data with Power Query – Part II
-

Power Query Editor



- Case Study 1 - Using Power Query to Manipulate Data
- Case Study 2 - Transpose, Pivot and Unpivot
- Case Study 3 - Split Column

Course curriculum



Power Bi

Power BI Advanced Capabilities



- Grouping
- Forecasting
- Use of Scatter Plot
- How to choose Correct Visuals
- Drill through
- Conditional Formatting
- Report Creation

Power BI Cloud



- Basics of Power BI Cloud

DAX



- Are my top 5 customers profitable?
- West vs East
- Same Period Last Year Analysis

Assessment (Project)



- Assessment (Project)

Course curriculum

Azure Topics

Introduction to Cloud Computing



- Introduction to Cloud Computing
- Different cloud platforms Could Services
- PaaS, IaaS, SaaS

Azure



- Azure
- Introduction to Azure
- Azure Overview
- AZURE Free Account
- Azure Portal
- Azure Services and Applications

Azure Blob Storage



- What are Storage account?
- How to create blob storage

Azure Datalake Storage



- Data Lake in Azure?
- What are storage services and why Data lake in Azure

Azure Datalake



Course curriculum

Azure Topics

Azure Datalake Storage



- How to create the Data lake services in Azure.
- Gen1 vs Gen2 Datalake difference.
- Creation of containers and folders.
- Use case in storing large data and integration of ADF copy activities in Data Lakes

Azure Data Factory



- Why and what is ETL with its components.
- ADF introduction Components of ADF
- Linked Services
- Datasets Activity Pipelines
- Triggers
- Integration runtime and types
- End to End Pipeline (ADLS-> ADF -> Azure SQL)



Azure SQL Database



- Types of databases
- Database pricing
- How to create sql database
- Database configurations
- Pipeline implementation

Azure SQL Database

Course curriculum



Microsoft Fabric

Introduction to Fabric



- What is Microsoft Fabric
 - Components of Microsoft Fabric
 - Microsoft Fabric terminology
 - Microsoft Fabric Architecture
 - Trial Types
 - Limitations
-

Fabric Components



- Data Engineering
 - Data Factory
 - Data Science
 - Real-Time Analytics
-

OneLake



- OneLake and lakehouse
 - Fabric solutions
-

Future Scope



- Latest Updates
 - Known limitations
 - Future Scope
-

Copilot



- Overview of Copilot in Fabric and Power BI (preview)

OUR PLACEMENTS



Mr . Srikanth Reddy k
Data Analyst
HCLTech



Mr . Sagar Singh
Bi Developer
LogicAngle



Mr . Chintamani
Data Analyst
**BURNS
MCDONNELL.**



Mr .Hemasundar Reddy k
Data Analyst
SONATA

SONATA SOFTWARE



Mr .Sanjay Kumar
Data Scientist

LANDMARK GROUP



Mr .Pulkit
Business Analyst

Deutsche Bank



Mr .Akhil
Data Scientist

LANDMARK GROUP



Mr .varun
Business analytics

LANDMARK GROUP



Mr .Manikanta
Data Engineer

P&G



Mr .Mahesh GR
Data Scientist

LANDMARK GROUP



Mr .Meher Kumar
Bi Developer




Mr .Prasanna
Business analytics

LANDMARK GROUP

OUR PLACEMENTS



Mr .Manoj Mehra

Data Analyst

 **trueblue**
THE PEOPLE COMPANY™



Mr .Suhas

Business analyst
 **carelon**
Behavioral Health



Mr .Satish Kumar

Business analyst

 **WNS**
Extending Your Enterprise



Mr .Inturi Babu

Data analyst

 **Mindtree**
Welcome to possible



Mr .Mehala Rasu

Data Engineer

 **QUADRA**
SYSTEMS



Mr .Shrinjay Soni

Data analyst

 **TECH**
mahindra



Mr .Vijay Bhaskar

Data analyst

 **iG** Match Group



Mr .Naresh Kumar

Data analyst

 IBM



Mr .Punitraj

Data analyst

 **MNC**



Mr .Nishith

Data analyst

 **MNC**



Ms .Deepthi

Data analyst

 **MNC**



Mr .Devendra Reddy

Snowflake Developer

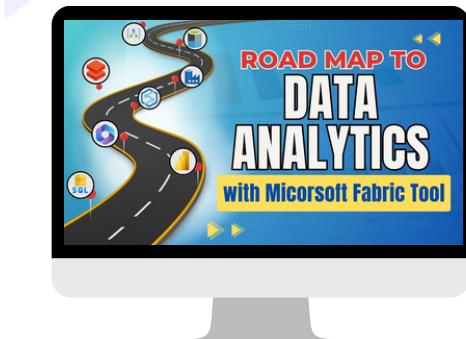
 **LatentView**
Actionable Insights • Accurate Decisions

HIRING COMPANY



LANDMARK
GROUP





**END TO END ROAD MAP ON
FULLSTACK POWER BI
WITH MS FABRIC**

Click the Link

Get In Touch



**R.J.Gardens, Anand Nagar,Aswath Nagar,
Marathahalli, Bengaluru, Karnataka 560037**



+91 89517 96123 | +91 89517 85123 | +91 93531 07498



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