



Full stack with Power apps and Power automate

Provided by
ksr datavizon



**JOB GUARANTEE
PROGRAM**

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Power Apps

- Power BI Basics
- Power BI Desktop
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Business Use Case

- Health
- Telecommunication
- Banking



Introduction

By end of this course, you will learn how to read and write complex queries to a database using one of the most in demand skills – MySQL. Build professional- quality business intelligence reports from the ground up.

Blend and transform raw data into beautiful interactive dashboards in cloud services. Design and implement the same B.I. tools used by professional analysts and data scientists.

Duration

2 Months long instructor- led online and class room training



Features



Main focus on hands-on training



Guidance in Resume Preparation



Rich material and handouts for reference



contains real world business problems and examples



Life Time Validity for re-attending classes



Course Outcome



- Become an expert in SQL
- Learn how to code in SQL
- Create, design, and operate with SQL databases
- Gain theoretical insights about relational databases
- Handle complex SQL joins with ease
- Build professional-quality business intelligence reports from the ground up
- Design and implement the same B.I. tools used by professional analysts and data scientists
- You will be able to analyze data from different data sources and create their own datasets
- You will have the required knowledge to dive deeper into Power BI and find out more about its advanced features
- You will be able to automate reports by using Power Apps and Create Flows in Power Automate





Tools used in this Course



My SQL Work Bench

Power BI Desktop

ADF





MYSQL

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

MYSQL Data Definition

Selecting Database

CREATE DATABASE

DROP DATABASE

Data Types

CREATE TABLE

Sequence

ALTER TABLE

ADD COLUMN

DROP COLUMN

RENAME TABLE

DROP TABLE

TRUNCATE TABLE



MYSQL DATA MANIPULATION

SELECT
ORDER BY
WHERE
SELECT DISTINCT
AND
OR
IN
BETWEEN
LIKE
LIMIT
IS NULL
Table & Column Aliases
GROUP BY
HAVING
Subquery
Derived Tables
EXISTS
UNION
MINUS
INTERSECT
INSERT
UPDATE
DELETE
REPLACE



Data Control Language

GRANT
REVOKE

Transaction Control Language

COMMIT
ROLLBACK
SAVEPOINT
SET TRANSACTION

MYSQL DATA TYPES

BIT
BOOLEAN
CHAR
DATE
DATETIME
DECIMAL
INT
TIME
TIMESTAMP
VARCHAR

SQL Constraints

Primary Key
Foreign Key
UNIQUE Constraint
CHECK Constraint
NOT NULL
DEFAULT



SQL Joins

JOINS
INNER JOIN
LEFT JOIN
RIGHT JOIN
Self-Join
CROSS JOIN

SQL Subqueries

Single-row subqueries
Multiple-row subqueries
Correlated subqueries

SQL Advanced Queries

Rank
Dense Rank
Row number





Power BI

Power BI basics

Introduction to Reporting

History of Power BI

Power bi desktop installation

Advantages of power bi than SSRS

Tool Introduction

Creating a sample Report

Power BI Desktop

What is Power BI Desktop?

Connecting / fetching the data to power bi from SQL SERVER / EXCEL / Tabular SSAS/text file.

Modifying the data source settings.

Understanding of Relationships view/Data view/report view

Creating/modifying and deleting the relationships.

Manage Relationships.

Creating / deleting and renaming the reports

Data Refresh options

Table level & column level options

Delete

Rename

Hide

View Hidden

Unhide/collapse/expand all



- All filter
- New Hierarchy
- New Measure/calculation
- Datatypes, Changing the Datatype of a Column
- Filters in Power Query
- Auto Filter / Basic Filtering
- Filter a Column using Text Filters
- Filter a Column using Number Filters
- Filter a Column using Date Filters
- Filter Multiple Columns
- Other reporting options
- Cut
- Copy
- Paste
- Format Painter
- Adding images/Text boxes/shapes
- Enter Data
- Page View

Power BI Query - Transform Data / Edit Queries

Table level options

- Copy
- Paste
- Delete
- Rename
- Duplicate
- Reference
- Move up/down/group
- Create function

Column Level options

- Copy/rename
- Rename other columns
- Duplicate columns
- Remove duplicate / errors
- Change type
- Transform



Replace
Replace error
Split column
Group by
Fill up
Fill down
Unpivot columns and other columns
Rename
Move
Drilldown
Add as a new query
Other options
Merge queries
Append queries
Use first row as a header
Sorting
Create / work with parameters

Append Queries:

Append Queries
Append Queries as New
Append 2 or more files individually with different queries
Query Options
Copy Query, Paste Query
Delete Query, Rename Query
Enable Load, Include in report Refresh
Duplicate Query, Reference Query
Move to Group, Move Up, Move Down

Merge Queries:

Merge Queries, Merge Queries as New
Default Types of Joins / Join Kinds / Merge Type
Left Outer (all from first, matching from second)
Right Outer (all from second, matching from first)
Full Outer (all rows from both)
Inner (only matching rows)
Left Anti (rows only in first)



Right Anti (rows only in second)

Cartesian Join or Cross Join

Transpose

Reverse columns

Count

Detect data types

Extract

Parse

Date

Time

Expand

Aggregate

Power BI Service

Power BI Service Introduction

Power BI Service Introduction, Power BI Cloud Architecture

Creating Power BI Service Account, SIGN IN to Power BI Service Account

Publishing Reports to the Power BI service, Import / Getting the Report to PBI Service

My Workspace / App Workspaces Tabs

DATASETS, WORKBOOKS, REPORTS, DASHBOARDS

Working with Datasets, Creating Reports in Cloud using Published Datasets

Power BI Datasets Live Connection using Desktop

Working with Workbooks, working with Reports, Sharing Reports

Dashboards Development

Publishing Reports to the Power BI service, Import / Getting the Report to PBI Service

My Workspace / App Workspaces Tabs

DATASETS, WORKBOOKS, REPORTS, DASHBOARDS

Working with Datasets, Creating Reports in Cloud using Published Datasets

Power BI Datasets Live Connection using Desktop



Working with Workbooks, working with Reports, Sharing Reports

Creating Dashboards

Pin Visuals and Pin LIVE Report Pages to Dashboard

Advantages of Dashboards

Interacting with Dashboards

Adding Tiles to Dashboards

Web Content, Image, Text Box, Video

Formatting Dashboard

Sharing Dashboard

Data Gateways

Introduction to Data Gateways

How Data Gateways work

Connect to an on premise Data Source by using a Data Gateway

Download Data Gateway

Installing a Data Gateway

Types of Gateways

On-premises Data Gateway, On-premises Data Gateway (personal mode)

Manage Data Gateway

Add and Remove Administrators

Add Data Source, Add or Remove Users to a Data Source

Refresh On Premise Data

Configuring Automatic Refresh using Schedules

Collaboration in Power BI using App Workspace

Introduction to App Workspaces

Create an App Workspace

Add Members to App Workspace to Collaborate

App Workspace Access

Admin, Member, Contributor

Sharing Power BI Content using Apps and Content Packs

Introduction to App

Publish an App

Update a Published App



Manage Content in App
Include in App, Exclude in App
Sharing App
Entire Organization, Specific individuals or group

Row Level Security in Power BI

Introduction to Row Level Security
Row Level Security (RLS) with DAX
Manage Roles, Creating Roles, Testing Roles
Adding Members to Roles in Power BI Service

Power BI Mobile App

How to install Power BI Mobile App
How to sign in to mobile app
How to customize reports / visuals only for mobile apps specific.

Power BI Licensing Models (Pro)

Introduction to power bi licensing model
What is Power BI Pro
What Is Power BI Premium
Difference between those two Pro and Premium

DAX - Data Analysis Expressions

Enhancing the Data Model - DAX
What is DAX, Calculated Column, Measures
DAX Table and Column Name Syntax
Creating Calculated Columns, Creating Measures
Calculated Columns Vs Measures
DAX Syntax & Operators
DAX Operators
Types of Operators
Arithmetic Operators, Comparison Operators, Text Concatenation Operator, Logical Operators



- Filter & value functions
- Logical functions
- Mathematical functions
- Statistical functions
- Text functions
- Time functions

DAX Date & Time Functions

- YEAR, MONTH, DAY
- WEEKDAY, WEEKNUM
- FORMAT (Text Function) Month Name, Weekday Name
- DATE, TODAY, NOW
- HOUR, MINUTE, SECOND, TIME
- DATEDIFF, CALENDAR
- Creating Date Dimension Table

DAX Text Functions

- LEN, CONCATENATE (&)
- LEFT, RIGHT, MID
- UPPER, LOWER
- TRIM, SUBSTITUTE, BLANK

DAX Logical Functions

- IF
- TRUE, FALSE
- NOT, OR, IN, AND
- IFERROR
- SWITCH

DAX Math and Statistical Functions

- INT
- ROUND, ROUNDUP, ROUNDDOWN
- DIVIDE
- EVEN, ODD
- POWER, SIGN
- SQRT, FACT



SUM, SUMX
MIN, MINX
MAX, MAXX
COUNT, COUNTX
AVERAGE, AVERAGEX
COUNTRROWS, COUNTBLANK

DAX Filter Functions

CALCULATE
CALCULATETABLE
ALL
RELATED
ALLSELECTED
ALLCROSSFILTERED
DISTINCT
EARLIER
FILTER
HASONEFILTER
HASONEVALUE
ISFILTERED
ISCROSSFILTERED
SELECTEDVALUE
USERRELATIONSHIP



DAX Time Intelligence Functions

Time Intelligence Introduction
TOTALMTD, TOTALQTD, TOTALYTD
PREVIOUSDAY, PREVIOUSMONTH
PREVIOUSQUARTER, PREVIOUSYEAR
NEXTDAY, NEXTMONTH
NEXTQUARTER, NEXTYEAR
SAMEPERIODLASTYEAR
PARALLELPERIOD



Power BI Custom Visualizations

PBI certified Visuals

Word Cloud

Infographic Designer

Drill down pie chart

Histogram

Power Apps

Power App Introductions

What is Power Apps?

Power BI Features

Power App Account

Connecting to Data

Canvas Apps

Layout, views, elements

Galleries, Forms, Data Cards

Triggers

Publish



Common Data Sources

Entities

Relationship

Calculated field

Custom views

Model-Driven Apps

Introduction

Site Map

Business process Flows



Power Automate

Introduction

What is Power Automate?

Features of Power Automate

Flow and Types of Flow

Power Automate

Creating a flow

Flow Diagram

Edit Flow

Share Flow

Power Automate Flows

Introduction to flows

UI Flows

Business Process flow

End to End Flow





Azure

Induction to Cloud Computing

What is Cloud Computing?

Different cloud platforms

Cloud Services

Azure

Azure Introductions

Azure Fundamentals

IaaS, PaaS & SaaS



Azure Services

Azure Blob Storage

Azure Data Lake Storage (ADLS)

Azure SQL Database

Azure Data Factory

Dataflow

Power Query Editor

Pipeline

Datasets

Azure with Power BI

Azure Power BI Connectivity

End to End Connectivity from Azure Services to PowerBI





Business Use Case

Case Study 1

Case Study 2

Case Study 3

Business Problem 1

Business Problem 2

Business Problem 3



Real World Projects



FAQs & Real Time Interview Questions



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Course Schedule

SQL	15 Hours
Power BI	45 Hours
Power Apps/Automate	15 Hours
Azure	15 Hours
Business Use Case	10 Hours

Weekly 7 Classes (Duration 2 months)





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