VTechLabs

Data Analyse with
PYTHON

Analysing data with Python is an essential skill
for Data Scientists and Data Analysts.

This course will take you from the basics of data analysis with Python to building and evaluating data models.

Topics covered include:

→ collecting and importing data

→ cleaning, preparing & formatting data

→ data frame manipulation

→ summarizing data

→ building machine learning regression models

→ model refinement

→ creating data pipelines

- **Database Basics**
- **MYSQL Server Basics**
- **Database models**
- **ER Model Overview**
- **Data types**
- **Understanding Test Database**
- **Basics Queries**
- **Removing Duplicates**
- **Data Filters Using Operators**
- **Data Sorting**
- **Query Design & Functions**
- **Grouping**
- **Joins**
- **Arithmetic and String functions**

- **Advanced Functions**
- **SET Operators**
- **Creating Complex Queries**
- **DML operations - Insert,**
- **Update & Delete TSQL**
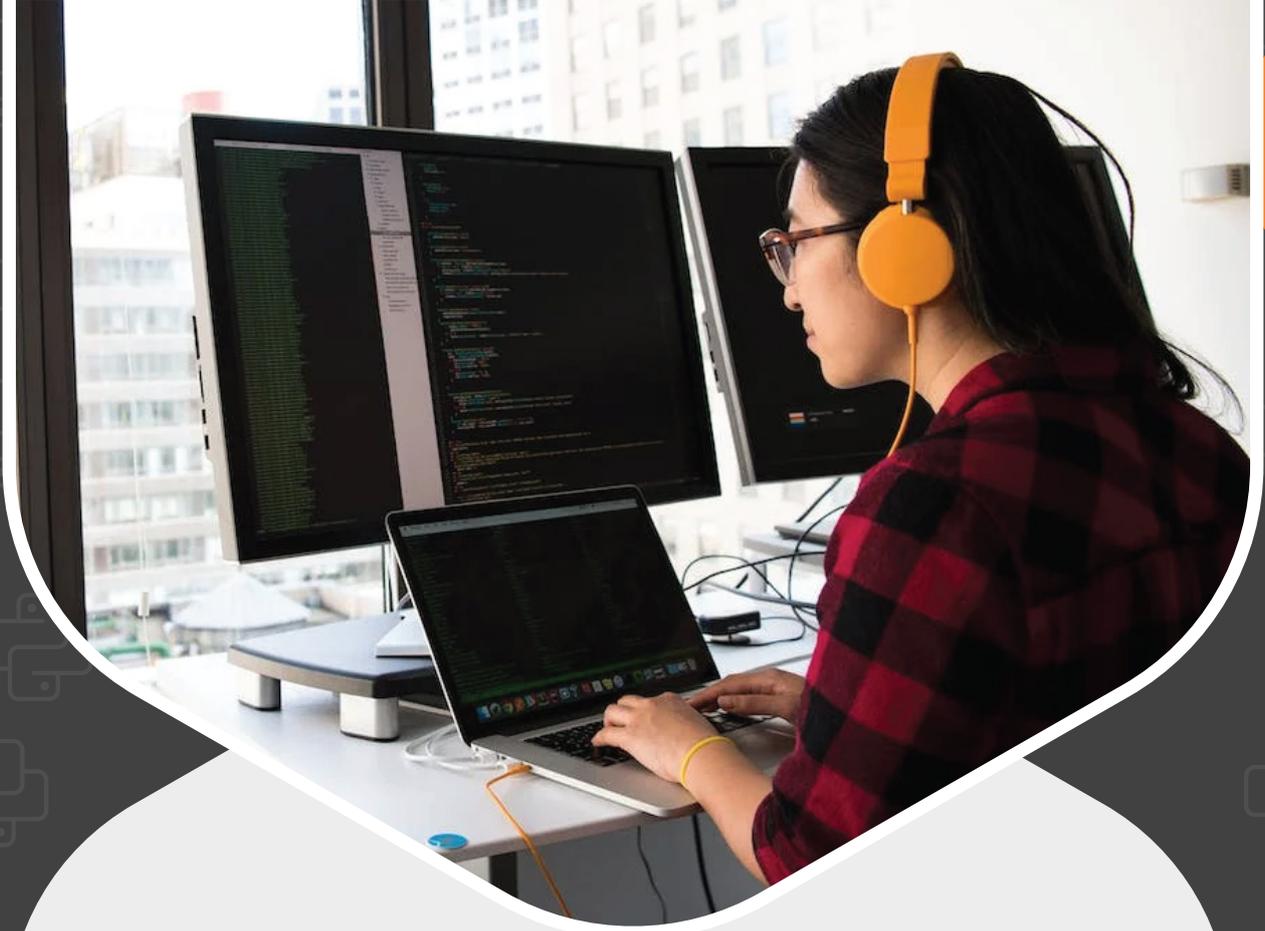
- ➡ **Database Operations**
- ➡ **Database Objects - Create, Alter and Drop Tables Views**
- ➡ **Complex Views**
- ➡ **Indexes**
- ➡ **Advanced Index Concepts**
- ➡ **How Data is Stored**
- ➡ **Security - User Management**

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