MY SCHEDULE

THEME: SQL FUNDEMENTALS + PYTHON FUNDEMENTALS

WEEK 1

|  |  |  |
| --- | --- | --- |
| Day | SQL | PYTHON |
| 1 | * SELECT, FROM, WHERE on AdventureWorks | Install Python, basic syntax |
| 2 | |  | | --- | |  |  |  | | --- | | ORDER BY, LIMIT, DISTINCT | | Variables, Data types, Lists, Loops |
| 3 | JOINs (INNER, LEFT) | Functions, conditionals, dictionaries |
| 4 | |  | | --- | |  |  |  | | --- | | JOINs (RIGHT, FULL), filters | | |  | | --- | |  |  |  | | --- | | Intro to pandas & working with CSVs | |
| 5 | GROUP BY, COUNT, SUM, HAVING | DataFrames, filtering, basic cleaning |
| 6 | Aggregates + nested queries | Practice mini ETL script (CSV → clean → save) |
| 7 | |  | | --- | |  |  |  | | --- | | Quiz + 5 use-case challenges | | Automate a report with pandas |

WEEK 2

|  |  |  |
| --- | --- | --- |
| Day | SQL | PYTHON |
| 1 | Subqueries, Aliases, CASE | Load data from SQL using pyodbc |
| 2 | Date filtering & formatting | Use pandas + SQL for basic pipeline |
| 3 | |  | | --- | |  |  |  | | --- | | CTEs (WITH statements) | | Write a function to transform data |
| 4 | |  | | --- | |  |  |  | | --- | | Window Functions: ROW\_NUMBER, RANK | | Clean and merge 2 CSVs |
| 5 | Practice: Top customers, top products | Write reusable ETL function |
| 6 | Final SQL project: Revenue dashboard | Simulate ETL with a mini pipeline |
| 7 | Review & document everything | |  | | --- | |  |  |  | | --- | | Automate the ETL with scheduling (optional) | |

WEEK 3

|  |  |  |
| --- | --- | --- |
| Day | SQL | PYTHON |
| 1 | 10 mini challenges (AdventureWorks) | Clean data + write to PostgreSQL (or SQLite) |
| 2 | Optimize queries, learn indexes | Logging & error handling in scripts |
| 3 | |  | | --- | |  |  |  | | --- | | Final review + cheatsheet | | Final ETL project (CSV → Clean → Upload) |