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

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| --- | --- | --- |
| 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) | |

**🎯 Master Python Basics Through 5–7 Solid Mini Projects**

Build projects that focus on:

* Conditionals
* Loops
* Functions
* Lists and Dictionaries
* File I/O
* Exception Handling

**Examples:**

* To-do list app (with file saving)
* BMI calculator

1. Number guessing game
2. Bank account manager
3. Student grade tracker