### DAY ☀️: \*\*Task – Filtering Data in SQL\*\*

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### ⚡ Task 1: Filter by City

\*\*Question:\*\* Show all students from the city `Delhi`.

\*\*Requirements:\*\*

- Use `WHERE city = 'Delhi'`

- Table: `students`

**Query : SELECT name,city FROM students**

**WHERE city = 'Delhi'**

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### ⚡ Task 2: Filter by Age

\*\*Question:\*\* Display students who are 20 years old.

\*\*Requirements:\*\*

- Use equality condition on `age`

**Query : SELECT \* FROM student**

**WHERE AGE=20;**

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### ⚡ Task 3: Filter with NOT EQUAL

\*\*Question:\*\* Show students who are \*\*not\*\* from `Mumbai`.

\*\*Requirements:\*\*

- Use `!=` or `<>` operator

**Query : SELECT \* FROM students**

**WHERE city != 'Mumbai';**

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### ⚡ Task 4: Filter with Greater Than

\*\*Question:\*\* List students who are older than 18.

\*\*Requirements:\*\*

- Use `>` operator

**Query : SELECT \* FROM students**

**WHERE age > 18;**

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### ⚡ Task 5: Filter with Less Than

\*\*Question:\*\* Show students who are younger than 20.

\*\*Requirements:\*\*

- Use `<` operator

**Query : SELECT \* FROM students**

**WHERE age < 20;**

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### ⚡ Task 6: Filter with AND

\*\*Question:\*\* Show students from `Delhi` who are 20 years old.

\*\*Requirements:\*\*

- Use `AND` in `WHERE` clause

**Query : SELECT \* FROM students**

**WHERE age = 18 AND city = ‘Delhi’;**

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### ⚡ Task 7: Filter with OR

\*\*Question:\*\* Show students who are from `Delhi` or `Chennai`.

\*\*Requirements:\*\*

- Use `OR` operator

**Query : SELECT \* FROM students**

**WHERE city = 'Delhi' OR city = 'Chennai';**

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### ⚡ Task 8: Filter Using NOT

\*\*Question:\*\* Show all students \*\*not\*\* from `Delhi`.

\*\*Requirements:\*\*

- Use `NOT` with `=`

**Query : SELECT \* FROM students**

**WHERE NOT city = 'Delhi';**

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### ⚡ Task 9: Filter with Text Condition

\*\*Question:\*\* Show students whose name is `Priya`.

\*\*Requirements:\*\*

- Use `WHERE name = 'Priya'`

SELECT \* FROM students

WHERE name = 'Priya';

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### ⚡ Task 10: Filter After Inserting New Record

\*\*Question:\*\* Insert a student `(6, 'Sonal', 22, 'Pune')`, then filter all students from `Pune`.

\*\*Requirements:\*\*

- Perform `INSERT` followed by `SELECT` with `WHERE`

**Query : INSERT INTO students**

**VALUES (7,'Sonal',22,'Pune');**

**SELECT \* FROM students**

**WHERE city = 'Pune';**

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