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

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Created by :

Name: Dhiraj Kr.

Profession: Data Scientist & GenAI Developer

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### ⚡ Task 1: Sort by Age (Ascending)

\*\*Question:\*\* Display all students sorted by their age from youngest to oldest.

\*\*Requirements:\*\*

- Use `ORDER BY age ASC`

**Query : SELECT \* FROM student**

**ORDER BY AGE;**

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### ⚡ Task 2: Sort by Name (Descending)

\*\*Question:\*\* Show all students in reverse alphabetical order by their name.

\*\*Requirements:\*\*

- Use `ORDER BY name DESC`

**Query : SELECT \* FROM student**

**ORDER BY name DESC;**

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### ⚡ Task 3: Sort by City (Ascending)

\*\*Question:\*\* Display students sorted by city names A to Z.

\*\*Requirements:\*\*

- Use `ORDER BY city`

**Query : SELECT \* FROM student**

**ORDER BY city;**

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### ⚡ Task 4: Sort by Age then Name

\*\*Question:\*\* Show all students sorted first by age, then by name (both ascending).

\*\*Requirements:\*\*

- Use `ORDER BY age, name`

**Query : SELECT \* FROM student**

**ORDER BY age, name;**

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### ⚡ Task 5: Sort by Age (Descending)

\*\*Question:\*\* Show students sorted from oldest to youngest.

\*\*Requirements:\*\*

- Use `ORDER BY age DESC`

**Query : SELECT \* FROM student**

**ORDER BY age DESC;**

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### ⚡ Task 6: Sort by City and Age

\*\*Question:\*\* Display students sorted by city (A–Z), and within the same city by age (smallest to largest).

\*\*Requirements:\*\*

- Use `ORDER BY city ASC, age ASC`

**Query : SELECT \* FROM student**

**ORDER BY city ,age;**

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### ⚡ Task 7: Sort with LIMIT

\*\*Question:\*\* Show only the top 3 oldest students.

\*\*Requirements:\*\*

- Use `ORDER BY age DESC LIMIT 3`

**SELECT \* FROM student**

**ORDER BY age DESC**

**LIMIT 3;**

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### ⚡ Task 8: Sort by Name Length

\*\*Question:\*\* Sort students by length of their name.

\*\*Requirements:\*\*

- Use `ORDER BY LENGTH(name)` \*(MySQL specific)\*

**Query : SELECT \* FROM student**

**ORDER BY LENGTH(name)**

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### ⚡ Task 9: Insert & Sort

\*\*Question:\*\* Insert a new student `'Zoya'` aged `21`, from `'Agra'`, then sort all students by name.

\*\*Requirements:\*\*

- Perform `INSERT`, then use `ORDER BY name`

**Query : INSERT INTO students**

**VALUES (8,’Zoya’,21,’Agra’)**

**SELECT \* FROM students**

**ORDER BY name ;**

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### ⚡ Task 10: Sort by City (Descending) and Age (Ascending)

\*\*Question:\*\* Sort students by city Z–A, then by age low to high.

\*\*Requirements:\*\*

- Use `ORDER BY city DESC, age ASC`

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**Query : SELECT \* FROM student**

**ORDER BY city DESC, age;**

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