### \*\*DAY\*\* ☀️: \*\*Task – Inserting Data into Tables\*\*

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### ⚡ Task 1: Insert One Student Record

\*\*Question:\*\* Insert a student into the `students` table with id = 6, name = 'Ravi', age = 21, city = 'Jaipur'.

\*\*Requirements:\*\*

- Use column names

- Use `INSERT INTO` statement

**Query:**

**INSERT INTO tasks.students\_table (ID,Name,Age,City)**

**VALUES (6,'Ravi',21,'Jaipur')**

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### ⚡ Task 2: Insert **Without** Column Names

\*\*Question:\*\* Add a new student directly without specifying column names.

\*\*Requirements:\*\*

- Insert (7, 'Meena', 20, 'Bhopal') into `students` table

**Query :**

**INSERT INTO tasks.students\_table**

**VALUES (7, 'Meena', 20,'Bhopal',NULL);**

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### ⚡ Task 3: Insert Multiple Rows

\*\*Question:\*\* Insert two student records in a single `INSERT` statement.

\*\*Requirements:\*\*

- Insert (8, 'Kiran', 22, 'Hyderabad')

- Insert (9, 'Suman', 19, 'Lucknow')

**INSERT INTO tasks.students\_table**

**VALUES (8, 'Kiran', 22,'Hyderabad',NULL),(9, 'Suman', 19,'Lucknow',NULL)**

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### ⚡ Task 4: Insert with Text and Number

\*\*Question:\*\* Insert one student ensuring correct use of text and number values.

\*\*Requirements:\*\*

- Insert (10, 'Aarti', 18, 'Nagpur')

- Make sure to use quotes for text

**Query : INSERT INTO students\_table**

**VALUES (10, 'Aarti', 18, 'Nagpur',NULL);**

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### ⚡ Task 5: Insert into Another Table

\*\*Question:\*\* Create a new table `teachers(id, name, subject)` and insert a record.

\*\*Requirements:\*\*

- Insert (1, 'Mr. Sharma', 'Math')

**Query : INSERT INTO teacher\_table**

**VALUES(1,'MR.SHARMA','MATH')**

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### ⚡ Task 6: Insert with Partial Columns

\*\*Question:\*\* Insert a student with only `id` and `name` (age and city should be NULL).

\*\*Requirements:\*\*

- Insert (11, 'Tina')

**Query : INSERT INTO students\_table**

**VALUES (12,'Tina',NULL ,NULL ,NULL)**

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### ⚡ Task 7: Insert with Default Values

\*\*Question:\*\* Create a `library` table with a `status` column defaulting to 'Available' and insert one record.

\*\*Requirements:\*\*

- Insert (1, 'Data Science') into `library(book\_id, title)`

**Query :**

**—**

**CREATE TABLE Library(**

**BookID INT,**

**Title VARCHAR(100),**

**Status VARCHAR(50) DEFAULT ‘Available’);**

**INSERT INTO Library(BookID,Title)**

**VALUES (1,’DATA SCIENCE’)**

### ⚡ Task 8: Insert and Verify

\*\*Question:\*\* Insert one record and write a query to verify the inserted data.

\*\*Requirements:\*\*

- Insert (12, 'Nikhil', 23, 'Ahmedabad')

- Then use: `SELECT \* FROM students WHERE id = 12;`

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### ⚡ Task 9: Insert With Error (For Learning)

\*\*Question:\*\* Try to insert a student with missing one value and note the error.

\*\*Requirements:\*\*

- Insert only three values into a table that expects four

**Query:**

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### ⚡ Task 10: Insert into Table With Foreign Key

\*\*Question:\*\* Create a `department` table and `faculty` table with foreign key dept\_id, then insert valid data.

\*\*Requirements:\*\*

- First insert department: (101, 'Computer Science')

- Then insert faculty: (1, 'Dr. Rao', 101)

**Query:**

**CREATE TABLE department(**

**deptid INT PRIMARY KEY,**

**Subject VARCHAR(100)**

**);**

**CREATE TABLE faculty(**

**TeacherID INT,**

**Name VARCHAR(100),**

**deptid INT,**

**FOREIGN KEY(deptid) REFERENCES department(deptid)**

**);**

**INSERT INTO department**

**VALUES(101,’Computer Science’);**

**INSERT INTO faculty**

**VALUES (1,’Dr.Rao’,101);**

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