**MySQL Commands with Explanations**

### **1. Creating a Database**

CREATE DATABASE stu;

**Explanation:** This command creates a new database named stu.

### **2. Creating a Table**

CREATE TABLE students(

id INT,

name VARCHAR(100),

city VARCHAR(100),

number VARCHAR(100)

);

**Explanation:** This command creates a table named students with four columns:

* id: Integer type
* name: String type with a maximum of 100 characters
* city: String type with a maximum of 100 characters
* number: String type with a maximum of 100 characters

### **3. Describing Table Structure**

DESC students;

**Explanation:** This command displays the structure of the students table, showing column names, data types, and constraints.

### **4. Inserting Data into Table**

INSERT INTO students VALUES (1, "riya", "gujarat", "1234567891"), (2, "priya", "bihar", "234567876");

**Explanation:** This command inserts two records into the students table.

### **5. Selecting All Data from Table**

SELECT \* FROM students;

**Explanation:** This command retrieves all records from the students table.

### **6. Selecting Specific Data**

SELECT \* FROM students WHERE id=1;

**Explanation:** This command fetches details of the student whose id is 1.

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### **7. Updating Data in a Table**

UPDATE students SET number="29877654" WHERE name="priya";

**Explanation:** This command updates the number column for the student named priya.

### **8. Deleting Data from a Table**

DELETE FROM students WHERE id=2;

**Explanation:** This command deletes the record where id is 2.

### **9. Creating Another Table (app2)**

DESC app2;

**Explanation:** This command displays the structure of the app2 table.

### **10. Inerting Data into app2 Table**

### INSERT INTO app2 VALUES (1, "whatsapp");

**Explanation:** This command inserts one record into the app2 table.

### **13. Corrected Insert Statement**

INSERT INTO app2(id) VALUES (2), (3);

**Explanation:** Since name has a default value (abc), inserting only id is allowed.

### **14. Selecting Data from app2 Table**

SELECT \* FROM app2;

**Explanation:** This command retrieves all records from the app2 table.

### **15. Dropping a Table**

DROP TABLE students;

**Explanation:** This command permanently deletes the students table, including all its data and structure.

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### **16. Creating a Table with Primary Key**

CREATE TABLE customer1(

id INT PRIMARY KEY,

name VARCHAR(50) NOT NULL,

acc\_type VARCHAR(50) NOT NULL DEFAULT 'saving'

);

A **Primary Key** is a unique identifier for each record in a table. It ensures that no duplicate values exist in the specified column and that the column cannot have NULL values.

**Explanation:** This command creates a table named students with four columns:

* id: Integer type
* name: String type with a maximum of 100 characters
* city: String type with a maximum of 100 characters
* number: String type with a maximum of 100 characters

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