Lab Assignment 9 (STORED PROCEDURE)

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Roll no.:15

Batch: S1

Class :SE-IT

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Microsoft Windows [Version 10.0.26100.3624]

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C:\Users\Admin>MySQL -u root -p

Enter password: \*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 24

Server version: 8.0.40 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> **SHOW** **DATABASES;**

+--------------------+

| Database |

+--------------------+

| ass\_7 |

| dumy |

| exp\_7 |

| exp\_9 |

| information\_schema |

| it\_dept |

| mysql |

| performance\_schema |

| sys |

| xyzsolutions |

+--------------------+

10 rows in set (0.00 sec)

mysql> **CREATE DATABASE ASS\_\_9P;**

Query OK, 1 row affected (0.01 sec)

mysql> **USE ASS\_\_9P;**

Database changed

mysql> **CREATE TABLE student\_info\_india (**

**-> student\_id INT,**

**-> student\_name VARCHAR(50),**

**-> city VARCHAR(50),**

**-> age INT**

**-> );**

Query OK, 0 rows affected (0.02 sec)

mysql> **-- Insert 29 records (some duplicates)**

mysql> **INSERT INTO student\_info\_india (student\_id, student\_name, city, age) VALUES**

**-> (1, 'Aarav S', 'Mumbai', 20),**

**-> (2, 'Isha', 'Delhi', 21),**

**-> (3, 'Rahul', 'Bangalore', 22),**

**-> (4, 'Sneha', 'Pune', 23),**

**-> (5, 'Karan', 'Kolkata', 21),**

**-> (6, 'Priya', 'Chennai', 20),**

**-> (7, 'Rohit', 'Hyderabad', 22),**

**-> (8, 'Anjali', 'Ahmedabad', 24),**

**-> (9, 'Vikram', 'Surat', 25),**

**-> (10, 'Neha', 'Jaipur', 23),**

**-> (11, 'Ravi', 'Lucknow', 22),**

**-> (12, 'Divya', 'Kanpur', 21),**

**-> (13, 'Manish', 'Nagpur', 22),**

**-> (14, 'Kavya', 'Indore', 23),**

**-> (15, 'Amit', 'Bhopal', 24),**

**-> (16, 'Sonal', 'Patna', 22),**

**-> (17, 'Yash', 'Vadodara', 20),**

**-> (18, 'Pooja', 'Ranchi', 25),**

**-> (19, 'Nikhil', 'Raipur', 21),**

**-> (20, 'Meena', 'Guwahati', 22),**

**-> -- Duplicate records**

**-> (1, 'Aarav D', 'Mumbai', 20),**

**-> (5, 'Karan', 'Kolkata', 21),**

**-> (6, 'Priya', 'Chennai', 20),**

**-> (10, 'Neha', 'Jaipur', 23),**

**-> (3, 'Rahul', 'Bangalore', 22),**

**-> (21, 'Arjun', 'Delhi', 22),**

**-> (22, 'Swati', 'Kochi', 23),**

**-> (23, 'Siddharth', 'Amritsar', 21),**

**-> (24, 'Bhavna', 'Noida', 22);**

Query OK, 29 rows affected (0.01 sec)

Records: 29 Duplicates: 0 Warnings: 0

mysql> **-- 1.)Stored procedure that retrieves all students from a specific city.**

mysql> DELIMITER $$

mysql> CREATE PROCEDURE GetStudentsByCity(IN cityName VARCHAR(50))

-> BEGIN

-> SELECT \* FROM student\_info\_india

-> WHERE city = cityName;

-> END $$

Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER ;

mysql> **-- Call the stored procedure**

mysql> CALL GetStudentsByCity('Delhi');

+------------+--------------+-------+------+

| student\_id | student\_name | city | age |

+------------+--------------+-------+------+

| 2 | Isha | Delhi | 21 |

| 21 | Arjun | Delhi | 22 |

+------------+--------------+-------+------+

2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

mysql> CALL GetStudentsByCity('kolkata');

+------------+--------------+---------+------+

| student\_id | student\_name | city | age |

+------------+--------------+---------+------+

| 5 | Karan | Kolkata | 21 |

| 5 | Karan | Kolkata | 21 |

+------------+--------------+---------+------+

2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> CALL GetStudentsByCity('Mumbai');

+------------+--------------+--------+------+

| student\_id | student\_name | city | age |

+------------+--------------+--------+------+

| 1 | Aarav S | Mumbai | 20 |

| 1 | Aarav D | Mumbai | 20 |

+------------+--------------+--------+------+

2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

mysql> **-- 2.)Find unique records (removing duplicates)**

mysql> DELIMITER $$

mysql> CREATE PROCEDURE GetUniqueStudents()

-> BEGIN

-> SELECT DISTINCT \* FROM student\_info\_india;

-> END $$

Query OK, 0 rows affected (0.00 sec)

mysql> DELIMITER ;

mysql> -- Call the stored procedure

mysql> CALL GetUniqueStudents();

+------------+--------------+-----------+------+

| student\_id | student\_name | city | age |

+------------+--------------+-----------+------+

| 1 | Aarav S | Mumbai | 20 |

| 2 | Isha | Delhi | 21 |

| 3 | Rahul | Bangalore | 22 |

| 4 | Sneha | Pune | 23 |

| 5 | Karan | Kolkata | 21 |

| 6 | Priya | Chennai | 20 |

| 7 | Rohit | Hyderabad | 22 |

| 8 | Anjali | Ahmedabad | 24 |

| 9 | Vikram | Surat | 25 |

| 10 | Neha | Jaipur | 23 |

| 11 | Ravi | Lucknow | 22 |

| 12 | Divya | Kanpur | 21 |

| 13 | Manish | Nagpur | 22 |

| 14 | Kavya | Indore | 23 |

| 15 | Amit | Bhopal | 24 |

| 16 | Sonal | Patna | 22 |

| 17 | Yash | Vadodara | 20 |

| 18 | Pooja | Ranchi | 25 |

| 19 | Nikhil | Raipur | 21 |

| 20 | Meena | Guwahati | 22 |

| 1 | Aarav D | Mumbai | 20 |

| 21 | Arjun | Delhi | 22 |

| 22 | Swati | Kochi | 23 |

| 23 | Siddharth | Amritsar | 21 |

| 24 | Bhavna | Noida | 22 |

+------------+--------------+-----------+------+

25 rows in set (0.00 sec)

Query OK, 0 rows affected (0.05 sec)

mysql>