Lab Assignment 9 (Stored Function)

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Name: Prathamesh Sadashiv Gadekar

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 23

Server version: 8.0.40 MySQL Community Server - GPL

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owners.

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

mysql> **SHOW DATABASES;**

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| Database |

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

| ass\_7 |

| dumy |

| exp\_7 |

| exp\_9 |

| information\_schema |

| it\_dept |

| mysql |

| performance\_schema |

| sys |

| xyzsolutions |

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10 rows in set (0.00 sec)

mysql> **CREATE DATABASE ASS\_9;**

Query OK, 1 row affected (0.02 sec)

mysql> **USE ASS\_9;**

Database changed

mysql> **CREATE TABLE customer\_orders (**

**-> order\_id INT PRIMARY KEY AUTO\_INCREMENT,**

**-> customer\_name VARCHAR(100),**

**-> product VARCHAR(100),**

**-> quantity INT,**

**-> order\_date DATE**

**-> );**

Query OK, 0 rows affected (0.03 sec)

mysql> **INSERT INTO customer\_orders (customer\_name, product, quantity, order\_date) VALUES**

**-> ('Alice', 'Laptop', 1, '2025-04-01'),**

**-> ('Bob', 'Tablet', 2, '2025-04-02'),**

**-> ('Alice', 'Laptop', 1, '2025-04-01'),**

**-> ('Charlie', 'Monitor', 1, '2025-04-03'),**

**-> ('Daisy', 'Keyboard', 3, '2025-04-04'),**

**-> ('Ethan', 'Mouse', 2, '2025-04-05'),**

**-> ('Fiona', 'Laptop', 1, '2025-04-06'),**

**-> ('George', 'Tablet', 1, '2025-04-07'),**

**-> ('Hannah', 'Monitor', 2, '2025-04-08'),**

**-> ('Isaac', 'Keyboard', 1, '2025-04-09'),**

**-> ('Jack', 'Mouse', 2, '2025-04-10'),**

**-> ('Alice', 'Laptop', 1, '2025-04-01'),**

**-> ('Fiona', 'Laptop', 1, '2025-04-06'),**

**-> ('Liam', 'Tablet', 3, '2025-04-11'),**

**-> ('Noah', 'Monitor', 1, '2025-04-12'),**

**-> ('Aarav', 'Laptop', 2, '2025-04-13'),**

**-> ('Isha', 'Tablet', 1, '2025-04-14'),**

**-> ('Kabir', 'Mouse', 3, '2025-04-15'),**

**-> ('Sneha', 'Keyboard', 2, '2025-04-16'),**

**-> ('Rohan', 'Monitor', 1, '2025-04-17'),**

**-> ('Meera', 'Laptop', 1, '2025-04-18'),**

**-> ('Anaya', 'Tablet', 2, '2025-04-19'),**

**-> ('Vihaan', 'Mouse', 1, '2025-04-20'),**

**-> ('Tara', 'Keyboard', 2, '2025-04-21'),**

**-> ('Dev', 'Monitor', 2, '2025-04-22');**

Query OK, 25 rows affected (0.01 sec)

Records: 25 Duplicates: 0 Warnings: 0

mysql> **-- 1).Stored Function to Get Most Frequently Ordered Product**

mysql> DELIMITER $$

mysql> CREATE FUNCTION get\_most\_ordered\_product()

-> RETURNS VARCHAR(100)

-> DETERMINISTIC

-> BEGIN

-> DECLARE top\_product VARCHAR(100);

-> SELECT product

-> INTO top\_product

-> FROM customer\_orders

-> GROUP BY product

-> ORDER BY COUNT(\*) DESC

-> LIMIT 1;

-> RETURN top\_product;

-> END $$

Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;

mysql> **-- USAGE**

mysql> SELECT get\_most\_ordered\_product() AS top\_product;

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

| top\_product |

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

| Laptop |

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

1 row in set (0.00 sec)

mysql>