Roll No.:2043

GROUP C-ASSIGNMENT 7

Title:Write and execute PL/SQL stored procedure and function to perform asuitable task on the database.Demonstrate its use.

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....................<<create schemas and display it>>..................

mysql> CREATE DATABASE grade;

Query OK, 1 row affected (0.13 sec)

mysql> CREATE TABLE student(roll\_no INT PRIMARY KEY, name VARCHAR(20), m3 INT , dbms INT, cg INT, se INT, pa INT, grade VARCHAR(20));

Query OK, 0 rows affected (0.12 sec)

mysql> desc student;

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

| Field | Type | Null | Key | Default | Extra |

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

| roll\_no | int | NO | PRI | NULL | |

| name | varchar(20) | YES | | NULL | |

| m3 | int | YES | | NULL | |

| dbms | int | YES | | NULL | |

| cg | int | YES | | NULL | |

| se | int | YES | | NULL | |

| pa | int | YES | | NULL | |

| grade | varchar(20) | YES | | NULL | |

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

8 rows in set (0.04 sec)

....................<<insert data except badge and display all>> ........

mysql> INSERT INTO student (roll\_no , name , m3 , dbms , cg , se , pa) VALUES (101, "AJAY" , 56 , 47 , 58, 63, 55 ),(102, "RUTUJ", 43, 67, 69, 54, 42),(103 , "SAHIL", 45, 52, 63, 52, 61),(104, "PRABHAS", 42, 54, 61, 58, 53);

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM student;

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

| roll\_no | name | m3 | dbms | cg | se | pa | grade |

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

| 101 | AJAY | 56 | 47 | 58 | 63 | 55 | NULL |

| 102 | RUTUJ | 43 | 67 | 69 | 54 | 42 | NULL |

| 103 | SAHIL | 45 | 52 | 63 | 52 | 61 | NULL |

| 104 | PRABHAS | 42 | 54 | 61 | 58 | 53 | NULL |

| 105 | BRAHMA | 44 | 57 | 47 | 64 | 53 | NULL |

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

5 rows in set (0.00 sec)

.........................<<Function and procedure Definition>>...........

mysql> delimiter //

mysql> CREATE FUNCTION f3(total INT)

-> RETURNS VARCHAR(20)

-> BEGIN

-> DECLARE gr VARCHAR(20);

-> SET total = total/5;

-> CASE

-> WHEN total>75 THEN

-> SET gr = "DISTINCTION";

-> WHEN total>65 and total<=75 THEN

-> SET gr = "FIRST CLASS";

-> WHEN total>60 and total<=65 THEN

-> SET gr = "HIGHER SECOND CLASS";

-> WHEN total>55 and total<=60 THEN

-> SET gr = "SECOND CLASS";

-> ELSE

-> SET gr = "FAIL";

-> END CASE;

-> RETURN gr;

-> END //

Query OK, 0 rows affected (0.02 sec)

mysql> delimiter //

mysql> CREATE PROCEDURE p1()

-> BEGIN

-> UPDATE student SET grade = f3(m3+cg+se+pa+dbms);

-> END//

Query OK, 0 rows affected (0.01 sec)

...............................<<Call procedure>>.......................

mysql> delimiter ;

mysql> CALL p1();

Query OK, 1 row affected (0.01 sec)

.........................<<display data with updated badge>>.............

mysql> SELECT \* FROM student;

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

| roll\_no | name | m3 | dbms | cg | se | pa | grade |

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

| 101 | AJAY | 56 | 47 | 58 | 63 | 55 | SECOND CLASS |

| 102 | RUTUJ | 43 | 67 | 69 | 54 | 42 | FAIL |

| 103 | SAHIL | 45 | 52 | 63 | 52 | 61 | FAIL |

| 104 | PRABHAS | 42 | 54 | 61 | 58 | 53 | FAIL |

| 105 | BRAHMA | 44 | 57 | 47 | 64 | 53 | FAIL |

| 106 | SOHAM | 69 | 85 | 78 | 74 | 88 | DISTINCTION |

| 107 | VIJAY | 70 | 65 | 67 | 74 | 78 | FIRST CLASS |

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

7 rows in set (0.00 sec)