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ROLL NO - 31114
CLASS - TE 1
SUBJECT - DBMS
DATE - 15/09/23
Assignment No - 05

-----START-----

MariaDB [(none)]> SHOW DATABASES;

Database
dbms
information_schema
mysql
performance_schema
sys

5 rows in set (0.027 sec)

MariaDB [(none)]> use dbms

Database changed

MariaDB [dbms]> SHOW TABLES;

Tables_in_dbms
n_empid
o_empid

2 rows in set (0.001 sec)

MariaDB [dbms]> CREATE TABLE stud_marks (
-> roll_no INT NOT NULL PRIMARY KEY,
-> name VARCHAR(20),
-> total_marks INT);

Query OK, 0 rows affected (0.025 sec)

MariaDB [dbms]> SELECT * FROM stud_marks;

Empty set (0.087 sec)

MariaDB [dbms]> INSERT INTO stud_marks VALUES

-> (1, "A", 600),
-> (3, "B", 850),
-> (5, "C", 950),
-> (7, "D", 1300),
-> (9, "E", 2000);

Query OK, 5 rows affected (0.005 sec)

Records: 5 Duplicates: 0 Warnings: 0

MariaDB [dbms]> SELECT * FROM stud_marks;

roll_no	name	total_marks
1	A	600
3	B	850
5	C	950
7	D	1300
9	E	2000

5 rows in set (0.000 sec)

MariaDB [dbms]> CREATE TABLE result (

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-> roll_no INT NOT NULL PRIMARY KEY,
-> name VARCHAR(20),
-> category VARCHAR(30));
Query OK, 0 rows affected (0.016 sec)

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MariaDB [dbms]> SELECT * FROM result;
Empty set (0.012 sec)

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MariaDB [dbms]> delimiter $

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MariaDB [dbms]> SET SQL_MODE = "ORACLE";
Query OK, 0 rows affected (0.001 sec)

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MariaDB [dbms]> CREATE FUNCTION get_category(r INT) RETURN VARCHAR
-> AS
-> t stud_marks.total_marks%type;
-> c result.category%type;
-> BEGIN
-> SELECT total_marks INTO t FROM stud_marks WHERE roll_no = r;
-> c := 'OTHER';
-> IF (t <= 1500 AND t >= 990) THEN
-> c := 'DISTINCTION';
-> END IF;
-> IF (t <= 989 AND t >= 900) THEN
-> c := 'FIRST CLASS';
-> END IF;
-> IF (t <= 899 AND t >= 825) THEN
-> c := 'HIGHER SECOND CLASS';
-> END IF;
-> return c;
-> END $

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Query OK, 0 rows affected (0.010 sec)

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MariaDB [dbms]> CREATE PROCEDURE proc_grade()
-> AS
-> BEGIN
-> FOR student in (SELECT * FROM stud_marks)
-> LOOP
-> INSERT INTO result VALUES (student.roll_no, student.name,
get_category(student.roll_no));
-> END LOOP;
-> END $

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Query OK, 0 rows affected (0.010 sec)

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MariaDB [dbms]> CALL proc_grade; $
Query OK, 10 rows affected (0.011 sec)

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MariaDB [dbms]> SELECT * FROM result; $
+-----+-----+-----+
| roll_no | name | category |
+-----+-----+-----+
| 1 | A | OTHER |
| 3 | B | HIGHER SECOND CLASS |
| 5 | C | FIRST CLASS |
| 7 | D | DISTINCTION |
| 9 | E | OTHER |
+-----+-----+-----+
5 rows in set (0.000 sec)

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-----END-----

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