

## ASSIGNMENT NO : 07

**NAME:**

**ROLL NO:**

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**Problem Statement:-**PL/SQL Stored procedure and Stored function .  
Write a Stored procedure namely proc\_grade for the categorization of student . If marks scored by student in examination is  $\leq 1500$  and  $\text{marks} \geq 990$  then student will be placed in distinction category if marks scored are between 989 and 900 category is first class , if marks 899 and 825 category is higher second class Write a PL/SQL block for using procedure created with above requirements.

1.Stud\_Marks(name,total\_marks) 2.Result(roll,name,class)

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MariaDB [(none)]> create database ASS7;  
Query OK, 1 row affected (0.01 sec)

MariaDB [(none)]> use ASS7;  
Database changed

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MariaDB [ASS7]> CREATE TABLE STUD\_MARKS (ROLL\_NO INT PRIMARY KEY,  
NAME CHAR(10), TOTAL\_MARKS INT );  
Query OK, 0 rows affected (0.06 sec)

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mysql> CREATE TABLE RESULT (ROLL\_NO INTEGER(10),NAME VARCHAR  
(10),CLASS CHAR (10));  
Query OK, 0 rows affected (0.37 sec)

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MariaDB [ASS7]> INSERT INTO STUD\_MARKS (ROLL\_NO,NAME,TOTAL\_MARKS)  
VALUES  
(101,'abc',933),  
(102,'xyz',356),  
(103,'mnk',450),  
(104,'pqr',675),  
(105,'snk',1300),  
(106,'jnk',250);  
Query OK, 6 rows affected (0.01 sec)  
Records: 6 Duplicates: 0 Warnings: 0

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MariaDB [ASS7]> SELECT \* FROM STUD\_MARKS;  
+-----+-----+-----+  
| ROLL\_NO | NAME | TOTAL\_MARKS |

101	abc	933
102	xyz	356
103	mnk	450
104	pqr	675
105	snk	1300
106	jnk	250

6 rows in set (0.00 sec)

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```

DELIMITER //
CREATE PROCEDURE PROC_GRADE(IN MARKS INT(10),OUT CLASS CHAR(10))
BEGIN
IF MARKS<=1500 AND MARKS>=990 THEN SET CLASS='DIST';
END IF;
IF MARKS<=989 AND MARKS>=900 THEN SET CLASS='FC';
END IF;
IF MARKS<=899 AND MARKS>=825 THEN SET CLASS='HSC';
END IF;
IF MARKS<=824 AND MARKS>=750 THEN SET CLASS='SC';
END IF;
IF MARKS<=749 AND MARKS>=651 THEN SET CLASS='PC';
END IF;
IF MARKS<=650 THEN SET CLASS='FAIL';
END IF;
END;
//
Query OK, 0 rows affected (0.31 sec)

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DELIMITER //
CREATE FUNCTION FIND_RESULT (ROLL_IN INT(5)) RETURNS INT DETERMINISTIC
BEGIN
DECLARE FMARKS INT;
DECLARE GRADE CHAR(10);
DECLARE STUD_NAME CHAR(10);
SELECT STUD_MARKS.TOTAL_MARKS,STUD_MARKS.NAME INTO
FMARKS,STUD_NAME FROM
STUD_MARKS WHERE STUD_MARKS.ROLL_NO=ROLL_IN;
CALL PROC_GRADE(FMARKS,@GRADE);
INSERT INTO RESULT VALUES (ROLL_IN,STUD_NAME,@GRADE);
RETURN ROLL_IN;
END;
//
Query OK, 0 rows affected (0.00 sec)

```

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```

mysql> SELECT FIND_RESULT (104); //
+-----+
| FIND_RESULT (104) |
+-----+

```

```
|          104 |  
+-----+  
1 row in set (0.33 sec)
```

```
mysql> SELECT * FROM RESULT; //  
+-----+-----+-----+  
| ROLL_NO | NAME | CLASS |  
+-----+-----+-----+  
|    104 | pqr | PC    |  
+-----+-----+-----+  
1 row in set (0.00 sec)
```

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```
mysql> SELECT FIND_RESULT (101); //  
+-----+  
| FIND_RESULT (101) |  
+-----+  
|          101 |  
+-----+  
1 row in set (0.33 sec)
```

```
mysql> SELECT * FROM RESULT; //  
+-----+-----+-----+  
| ROLL_NO | NAME | CLASS |  
+-----+-----+-----+  
|    104 | pqr | PC    |  
|    101 | abc | FC    |  
+-----+-----+-----+  
2 rows in set (0.00 sec)
```

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```
mysql> SELECT FIND_RESULT (106); //  
+-----+  
| FIND_RESULT (106) |  
+-----+  
|          106 |  
+-----+  
1 row in set (0.48 sec)
```

```
mysql> SELECT * FROM RESULT; //  
+-----+-----+-----+  
| ROLL_NO | NAME | CLASS |  
+-----+-----+-----+  
|    104 | pqr | PC    |  
|    101 | abc | FC    |  
|    106 | jnk | FAIL  |  
+-----+-----+-----+  
3 rows in set (0.00 sec)
```

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```
mysql> SELECT FIND_RESULT (102); //  
+-----+
```

```
| FIND_RESULT (102) |
+-----+
|          102 |
+-----+
1 row in set (0.06 sec)
```

```
mysql> SELECT * FROM RESULT; //
+-----+-----+-----+
| ROLL_NO | NAME | CLASS |
+-----+-----+-----+
|    104 | pqr | PC    |
|    101 | abc | FC    |
|    106 | jnk | FAIL  |
|    102 | xyz | FAIL  |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

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```
mysql> SELECT FIND_RESULT (103); //
+-----+
| FIND_RESULT (103) |
+-----+
|          103 |
+-----+
1 row in set (0.34 sec)
```

```
mysql> SELECT * FROM RESULT; //
+-----+-----+-----+
| ROLL_NO | NAME | CLASS |
+-----+-----+-----+
|    104 | pqr | PC    |
|    101 | abc | FC    |
|    106 | jnk | FAIL  |
|    102 | xyz | FAIL  |
|    103 | mnk | FAIL  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

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```
mysql> SELECT FIND_RESULT (105); //
+-----+
| FIND_RESULT (105) |
+-----+
|          105 |
+-----+
1 row in set (0.64 sec)
```

```
mysql> SELECT * FROM RESULT; //
+-----+-----+-----+
| ROLL_NO | NAME | CLASS |
+-----+-----+-----+
|    104 | pqr | PC    |
```

	101		abc		FC	
	106		jnk		FAIL	
	102		xyz		FAIL	
	103		mnk		FAIL	
	105		snk		DIST	
+-----+-----+-----+						

6 rows in set (0.01 sec)

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