

GROUP B
ASSIGNMENT 6

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CLASS- TE-IT
BATCH- T2
ROLL NO- 7048

PROBLEM STATEMENT

Write and execute PL/SQL stored procedure and function to perform a suitable task on the database. Demonstrate its use.

TABLES

```
mysql> select * from book;
```

b_id	b_name	author	publication	isbn
price	copies	dept		
1975	MySQL	Khor	Sun	
9712786369	250	50	Comp	
2006	Python	Khor	Sun	
9749186952	600	50	IT	
2909	HTML	Moschini	Pearson	
9817186369	1000	80	IT	
3111	Quant Aptitude	Arun Sharma	McGraw Hill	
8254987420	875	30	Management	
3113	Logical Reasoning	Upadhyay	McGraw Hill	
8254987460	600	30	Management	
3969	OOP in C++	Balagurusamy	Ocean	
7219186999	800	200	IT	
4106	Java	Schildt	Pearson	
6534186786	1200	50	Comp	
5871	Let Us C	Kanetkar	KPP	
9812377456	500	100	IT	
6066	Machine Theory	Patil	Sun	
9876128458	500	50	Mech	
6892	Analog Signals	Mahajan	Ocean	
9878513458	800	50	Elec	
7033	DBMS	Gupta	NULL	NULL
449	NULL	NULL		
8421	8085	Stalling	Oxford	
9743286369	400	5	E&TC	
8731	Printing Machines	Diwan	KPP	
9819483458	300	40	Printing	

13 rows in set (0.00 sec)

```
mysql> select * from student;
```

```
+-----+-----+-----+-----+-----+-----+
| roll_no | s_name      | dept | class | issue_date | return_date |
b_id | marks | address |
+-----+-----+-----+-----+-----+-----+
| 6010 | Prathamesh | E&TC | TE    | 2019-06-05 | 2019-05-04 |
3113 | NULL | NULL |
| 6032 | Rushikesh  | IT   | BE    | 2019-06-04 | 2019-07-02 |
3111 | NULL | NULL |
| 6060 | Varun      | Elec | BE    | 2019-06-04 | 2019-07-20 |
2909 | NULL | NULL |
| 7007 | Mahesh     | IT   | TE    | 2019-06-02 | 2019-06-14 |
6066 | NULL | NULL |
| 7010 | Atharva    | Mech | TE    | 2019-06-20 | 2019-06-24 |
7033 | NULL | NULL |
| 7069 | Vaibhav    | E&TC | TE    | 2019-06-30 | 2019-07-07 |
1975 | NULL | NULL |
| 8010 | Rutuja     | Comp | SE    | 2019-06-21 | 2019-07-03 |
2006 | 75 | kothrud |
| 8019 | Sakshi     | Elec | SE    | 2019-07-01 | 2019-07-09 |
6892 | NULL | NULL |
| 8045 | Aditya     | Mech | SE    | 2019-07-04 | 2019-07-15 |
8421 | NULL | NULL |
| 9001 | Pranav     | Comp | FE    | 2019-07-02 | 2019-07-15 |
4106 | NULL | NULL |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

```
mysql> select * from staff;
```

```
+-----+-----+-----+-----+-----+-----+
| s_id | s_name | dept | desig | issue_date | return_date |
b_id |
+-----+-----+-----+-----+-----+-----+
| 1111 | Bob    | Math | Prof  | 2019-01-01 | 2019-06-01 |
6892 |
| 1234 | Jack   | IT   | HOD   | 2019-01-01 | 2019-06-01 |
8731 |
| 5871 | Vikram | Physics | HOD   | 2019-03-31 | 2019-08-15 |
3113 |
| 8769 | Ravi   | Mech | Prof  | 2019-06-18 | 2019-08-20 |
7033 |
| 9999 | Steph  | Elec | Prof  | 2019-03-31 | 2019-05-04 |
2909 |
+-----+-----+-----+-----+-----+-----+
--+
```

5 rows in set (0.00 sec)

QUERY - Create a function to display marks of particular student and returns int

```
mysql> delimiter //
mysql> create function getMarks(rn int)
    -> returns int
    -> begin
    -> declare m int;
    -> select marks into m from student where roll_no=rn;
    -> return m;
    -> end;
    -> //
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> select getMarks(8010) as marks;
    -> //
```

```
+-----+
| marks |
+-----+
|    75 |
+-----+
```

1 row in set (0.00 sec)

QUERY - Write a function to display address of particular student

```
mysql> delimiter //
mysql> create function getAddress(rn int)
    -> returns varchar(50)
    -> begin declare a varchar(50);
    -> select address into a from student where roll_no=rn;
    -> return a;
    -> end;
    -> //
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> select getAddress(8010) as address;
    -> //
```

```
+-----+
| address |
+-----+
| kothrud |
+-----+
```

1 row in set (0.00 sec)

QUERY - Display grade of student

```
mysql> delimiter //
mysql> create function GRADE(rn int)
-> returns varchar(2)
-> begin
-> declare grade varchar(2);
-> declare m int;
-> select marks into m from student where roll=rn;
-> if m > 90 then
-> set grade='A';
-> elseif m < 90 and m > 70 then
-> set grade='B';
-> elseif m < 70 and m > 50 then
-> set grade='C';
-> elseif m < 40 and m > 30 then
-> set grade='D';
-> else
-> set grade='E';
-> end if;
-> return grade;
-> end;
-> //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select grade(24) as GRADE;
-> //
+-----+
| GRADE |
+-----+
| A     |
+-----+
```

```
mysql> delimiter $$
mysql> call getmark(12,@marks) $$
+-----+
| marks |
+-----+
|    56 |
+-----+
1 row in set (0.00 sec)
```

QUERY - Create PROCEDURE to display marks of particular student

```
mysql> create procedure getmarks(IN rn int ,OUT m int)
-> begin
-> select marks from student where roll=rn;
-> end$$
Query OK, 0 rows affected (0.05 sec)

mysql> delimiter $$
```

```
mysql> call getmark(12,@marks) $$
+-----+
| marks |
+-----+
|    56 |
+-----+
1 row in set (0.00 sec)
```

QUERY - Write a PROCEDURE to display address of particular student

```
mysql> delimiter //
mysql> create procedure getaddress(in rn int,out addr varchar(30))
-> begin
-> select address from student where roll=rn;
-> end
-> //
```

```
mysql> call getaddress(12,@a);
-> //
```

```
+-----+
| address      |
+-----+
| taware colony |
+-----+
1 row in set (0.00 sec)
```