## **EXPERIMENT NO: - 10**

```
# To understand the concepts of stored Functions.
use RMS 2; select database ();
select * from Passenger;
# Use of Stored function
delimiter $$
create function agelevel(p_agelimit double)
returns varchar(10)
deterministic
begin
declare lvl varchar(10)
if p agelimit>30 then set lvl='TYPE1'
elseif
(p agelimit <=30 and p agelimit>=25)
then set lvl='TYPE2';
elseif p agelimit<25
then set lvl='TYPE3';
end if;
return(lvl);
end
$$
delimiter; select *from passenger;
select P Name, agelevel(Age) from Passenger;
# Even - odd
# Display 0 for EVEN and 1 for ODD delimiter
$$
create function isodd(input_number int)
returns int
deterministic
begin
declare v isodd int;
if mod(input number,2)=0 then set v isodd=FALSE;
#0-Even, 1-Odd
else
```

```
set v_isodd=TRUE;
end if;
return(v isodd);
end $$
delimiter;
select * from Passenger; select P name, isodd(P ID) from Passenger; select
P name, isodd(PNR) from Passenger; select P name, isodd(Age) from Passenger;
select P name, isodd(Ticket ID) from Passenger;
#Output: -
Enter password: ****
Welcome to the MySQL monitor. Commands end with;
or \g. Your MySQL connection id is 34 Serverversion: 8.0.27 MySQL Community
Server - GPL Copyright (c) 2000, 2021, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other
names may be trademarks of their respective owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current inputstatement. mysql>
use
RMS 2; Database changedmysql> select
database();
| database() |
| rms 2 |
1 row in set (0.00 sec)
mysql> select * from Passenger;
        +___+__+
| P ID | P name | Age | Gender | Ticket ID | PNR
+____+__+
| 201 | Barry | 21 | Male | 596 | 308123905 |
```

| 217 | Mark | 24 | Male | 136 | 1265577771 | | 239 | Alice | 30 | Female | 245 | 1975364587 |

```
| 340 | Natasha | 32 | Female | 169 | 2110755678 |
 367 | Tony | 24 | Male | 101 | 2120017791 |
+_____+___+___+___+___+___+5 rows in set (0.00 sec)
mysql> create function agelevel(p agelimit double)
-> returns varchar(10)
-> deterministic
-> begin
-> declare lvl varchar(10);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near " at line
5 mysql> delimiter $$
mysql> create function agelevel(p agelimit double)
-> returns varchar(10)
-> deterministic
-> begin
-> declare lvl varchar(10);
-> if p agelimit>30
-> then set lvl='TYPE1';
-> elseif(p agelimit <=30 and p agelimit>=25)
-> then set lvl='TYPE2';
-> elseif p agelimit<25
-> then set lvl='TYPE3';
-> end if;
-> return(lvl);
-> end $$
Query OK, 0 rows affected (0.04 sec)
mysql> delimiter;
mysql> select * from passenger;
                + +
| P_ID | P_name | Age | Gender | Ticket ID | PNR
 201 | Barry | 21 | Male |
                                596 | 308123905 |
 217 | Mark
              | 24 | Male |
                               136 | 1265577771 |
 239 | Alice
              | 30 | Female |
                                245 | 1975364587 |
```

```
340 | Natasha | 32 | Female |
                                  169 | 2110755678 |
 367 | Tony
              | 24 | Male |
                                    101 | 2120017791 |
<u>+___</u> _+
5 rows in set (0.01 \text{ sec})
mysql> select P Name, agelevel(Age) from Passenger;
| P Name | agelevel(Age) |
 Barry | TYPE3
            | TYPE3
Mark
| Alice | TYPE2
| Natasha | TYPE1
| Tony
            | TYPE3
5 rows in set (0.00 \text{ sec})
mysql> delimiter $$ mysql> create functionisodd(input number int)
-> returns int
-> deterministic
-> begin
-> declare v isodd int;
-> if mod(input number,2)=0 then
-> set v isodd=FALSE; # 0 - Even, 1 - Odd
-> else
-> set v isodd=TRUE;
-> end if;
-> return(v isodd);
-> end $$
Query OK, 0 rows affected (0.03 sec)
mysql> delimiter;
mysql> select * from Passenger;
<u>++__</u> ___ <u>+ ___</u>+___
| P ID | P name | Age | Gender | Ticket ID | PNR
                <u>+ .....</u>+....
 201 | Barry | 21 | Male |
                                    596 | 308123905 |
 217 | Mark
              | 24 | Male |
                                  136 | 1265577771 |
 239 | Alice
                | 30 | Female |
                                    245 | 1975364587 |
 340 | Natasha | 32 | Female |
                                   169 | 2110755678 |
 367 | Tony | 24 | Male |
                                 101 | 2120017791 |
                                   + + +5 rows in set (0.00 sec)
mysql> select P name, isodd(P ID) from Passenger;
| P name | isodd(P ID) |
```

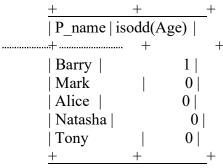
+	+		_+	
Barry		1		
Mark		1		
Alice		1		
Natasha		0		
Tony		1		
+	_+		_+	
5 rows in set $(0.00 \text{ sec})$				

mysql> select P\_name,isodd(PNR) from Passenger;

+	+	+		
P_name   isodd(PNR)				
+	+	+		
Barry		1		
Mark		1		
Alice		1		
Natasha		0		
Tony		1		
+	+	+		
<i>-</i> .	. (0.00	` `		

5 rows in set (0.00 sec)

mysql> select P\_name,isodd(Age) from Passenger;



5 rows in set (0.00 sec)

mysql> select P\_name,isodd(Ticket\_ID) from Passenger;

+ +	+		
P_name   isodd(Ticket_ID)			
+	+ +		
Barry	0		
Mark	0		
Alice	1		
Natasha	1		
Tony	1		

+ + + .....+ 5 rows in set (0.00 sec)mysql>