Lab-8 Functions and stored proceudres:

Details:

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· Section : D

Question 1:

Commands:

```
DELIMITER $$
CREATE function ticket_limit(userid varchar(20), today date) RETURNS
varchar(50) BEGIN DECLARE cnt int;DECLARE msg varchar(50);
 cnt = (
    SELECT
      count(*)
    from
     TICKET
    where
     TICKET.user_id = userid
     AND TIMESTAMPDIFF(MONTH, today, TICKET.travel_date) = 0
  ); IF cnt = 0 THEN
set
  msg = 'cannot purchase ticker current limit is over';ELSE
  msg = 'below limit, can purshase tickets';END IF;RETURN msg;END;$$
SELECT user_id, ticket_limit(TICKET.user_id, "2021-10-22") FROM
TICKET;$$
```

Screenshots:

```
fariaDB [railways]> DELIMITER $$
fariaDB [railways]> CREATE function ticket_limit(userid varchar(20), today date) RETURNS varchar(50) BEGIN DECLARE cnt int;DECLARE msg
varchar(50);
          SELECT
          from
TICKET
          where
TICKET.user_id = userid
AND TIMESTAMPDIFF(MONTH, today, TICKET.travel_date) = 0
-> msg = 'below limit, can purshase tickets';END IF;RETURN msg;END;$$
Query OK, 0 rows affected (0.012 sec)
MariaDB [railways]> SELECT user_id,ticket_limit(TICKET.user_id,"2021-10-22") FROM TICKET;$$
 user_id | ticket_limit(TICKET.user_id,"2021-10-22")
 ADM_001 | cannot purchase ticker current limit is over
 ADM_001 | cannot purchase ticker current limit is over
 ADM_002 | cannot purchase ticker current limit is over
 ADM_002 | cannot purchase ticker current limit is over ADM_003 | cannot purchase ticker current limit is over
  ADM_003 | cannot purchase ticker current limit is over
 {\sf USR\_002} | cannot purchase ticker current limit is over {\sf USR\_002} | cannot purchase ticker current limit is over
 USR_007 | cannot purchase ticker current limit is over
 USR_008 | below limit, can purshase tickets
USR_008 | below limit, can purshase tickets
USR_009 | cannot purchase ticker current limit is over
 USR_010 | cannot purchase ticker current limit is over
 USR_012 | cannot purchase ticker current limit is over
```

Question 2:

14 rows in set (0.003 sec)

Command:

```
CREATE procedure generate_age(IN dob date, IN userid varchar(20))
BEGIN
UPDATE
USER
SET
age = FLOOR(DATEDIFF(NOW(), dob) / 365)
WHERE
user_id = userid;END;$$

UPDATE USER SET age=NULL;$$
CALL generate_age("1989-04-14", "ADM_001");$$

SELECT * FROM USER WHERE user_id="ADM_001";$$
```

Screenshots:

```
MariaDB [railways]> UPDATE USER SET age=NULL;$$
Query OK, O rows affected (0.000 sec)
Rows matched: 33 Changed: 0 Warnings: 0
MariaDB [railways]> CREATE procedure generate_age(IN dob date, IN userid varchar(20)) BEGIN
   -> UPDATE
    -> USER
   -> SET
   -> age = FLOOR(DATEDIFF(NOW(), dob) / 365)
    -> WHERE
-> user_id = userid;END;$$
ERROR 1304 (42000): PROCEDURE generate_age already exists
MariaDB [railways]>
MariaDB [railways]> CALL generate_age("1989-04-14", "ADM_001");$$
Query OK, 1 row affected (0.008 sec)
MariaDB [railways]> SELECT * FROM USER WHERE user_id="ADM_001";
 user_id | user_type | fname | lname | age | dob | pincode | street_name |
 ADM_001 | ADMIN | Narendra | Modi | 33 | 1989-04-14 | 600047 | Old Jail Road |
1 row in set (0.000 sec)
```