DBMS LAB 8

NAME: NIKHIL RAJU MOHITE

SRN: PES1UG20CS667

SECTION: K

1. Write a function to find the number of tickets booked by a customer. If no of tickets is more than 3 for the current month then display error message as "cannot purchase tickets current limit is over"

SQL Code:

```
PES1UG20CS667_1.sql - Notepad
                                                                                    Х
File Edit Format View Help
delimiter $$
Create function check_ticket_limit(u_id varchar(255))
returns varchar(255)
deterministic
begin
  declare tkt_count int;
  declare ret_msg varchar(255);
select count(user_id) into tkt_count
from ticket
where user_id = u_id and
                month(travel date)=month(sysdate()) and
                year(travel_date)=year(sysdate());
if tkt count > 3 then
      set ret_msg := ("you can not buy any more tickets - Current Limit Reached");
else
     set ret_msg := Concat("Remaining buying limit is ", 3 - tkt_count," tickets");
end if;
  return ret_msg;
end;
$$
delimiter;
-- call the function
select distinct user_id, check_ticket_limit(user_id) from ticket;
```

```
Command Prompt - mysql -u root
MariaDB [cs667_rr]> delimiter $$
MariaDB [cs667_rr]> Create function check_ticket_limit(u_id varchar(255))
    -> returns varchar(255)
    -> deterministic
    -> begin
         declare tkt_count int;
          declare ret_msg varchar(255);
   ->
   -> select count(user_id) into tkt_count
   -> from ticket
    -> where user_id = u_id and
   -> month(travel_date)=month(sysdate()) and
   -> year(travel_date)=year(sysdate());
   -> if tkt_count > 3 then
             set ret_msg := ("you can not buy any more tickets - Current Limit Reached");
   -> else
             set ret_msg := Concat("Remaining buying limit is ", 3 - tkt_count," tickets");
   -> end if;
   -> return ret_msg;
   -> end;
   -> $$
Query OK, 0 rows affected (0.018 sec)
MariaDB [cs667_rr]> delimiter ;
MariaDB [cs667_rr]> select distinct user_id, check_ticket_limit(user_id) from ticket;
 user_id | check_ticket_limit(user_id)
 ADM_001 | Remaining buying limit is 3 tickets
 ADM 003
            Remaining buying limit is 3 tickets
            Remaining buying limit is 3 tickets
 USR 002
 ADM 002
            Remaining buying limit is 3 tickets
 USR_007
            Remaining buying limit is 3 tickets
 USR_008
            Remaining buying limit is 3 tickets
           Remaining buying limit is 3 tickets
Remaining buying limit is 3 tickets
 USR_009
 USR_010 |
 USR_012 | Remaining buying limit is 3 tickets
9 rows in set (0.002 sec)
MariaDB [cs667_rr]>
```

2. Write a stored procedure to calculate the age of the customer when the date of birth is given. Update the column named age in the customer table.

SQL Code

```
PES1UG20CS667_2.sql - Notepad

File Edit Format View Help

DELIMITER $$

CREATE procedure calculate_age()

BEGIN

DECLARE TodayDate DATE;

SELECT CURRENT_DATE() INTO TodayDate;

UPDATE user

SET age= YEAR(TodayDate) -year(dob);

END$$

DELIMITER;
```

Before

```
👞 Command Prompt - mysql -u root
MariaDB [cs667_rr]> select * from user;
 user_id | user_type | fname
                                                   age
                                                                          pincode
 ADM_001
            ADMIN
                                                            1989-04-14
                                                                                     Old Jail Road
                         Narendra
                                       Modi
                                                                           600047
 ADM_002
                                                            1990-04-14
            ADMIN
                         Droupadi
                                       Murmu
                                                                           640012
                                                                                     High Street
 ADM_003
            ADMIN
                                       Singh
                                                        0
                                                            1991-04-08
                                                                           575003
                                                                                     Pumpwell Road
                         Manmohan
                                                                                     10, Janpath
 USR 001
                           Ajit
                                       Ullal
                                                            1971-01-01
                                                                           560001
            PSGR
                                                        0
 USR_002
USR_003
                                                                                     10, Downing
                         Muhammed
                                                       0
                                                            2000-10-09
            PSGR
                                       Ali
                                                                           560003
                         Sai Deepak
                                                            1996-12-12
            PSGR
                                       Reddy
                                                        0
                                                                           600001
                                                                                     14, Kailsh Marg
                                                            1996-12-13
1997-12-14
 USR_004
USR_005
                                       Agarwal
            PSGR
                         Rudra
                                                        0
                                                                           600042
                                                                                     5, Lohia Garden
                                                                                        Pink Street
            PSGR
                         Rahul
                                       Khanna
                                                        0
                                                                           600067
 USR_006
            PSGR
                         Nirmala
                                       Seturaman
                                                        0
                                                            1998-12-15
                                                                           560105
                                                                                     3, Blue Avenue
 USR_007
            PSGR
                         Smriti
                                                        0
                                                            1999-12-16
                                                                           575014
                                                                                        Banyan Avenie
                                       Irani
 USR_008
            PSGR
                         Ajit
                                       Sethi
                                                            1966-04-14
                                                                           575001
                                                                                     6, Poes Garden
 USR_009
            PSGR
                         Arjun
                                       Allu
                                                            1967-04-08
                                                                           575020
                                                                                        Dhamaka street
 USR_010
                                        Prabhu
                                                            1968-04-14
                                                                           600042
                                                                                     8, Clone Colony
            PSGR
                         Samanta
                                                            1969-04-14
 USR 011
            PSGR
                                       Bedi
                                                        0
                                                                           560003
                                                                                     56, Brigade Road
                         Kiran
 USR_012
                                                            1970-04-08
            PSGR
                                       Gandhi
                                                        0
                                                                           475001
                                                                                     Mirza road
                         Rahu1
 USR_013
USR_014
                         Rashkit
                                       Shetty
                                                        0
                                                            1971-04-14
            PSGR
                                                                           560009
                                                                                     JC Road
                                                            1972-04-14
                                                                           600034
            PSGR
                         Rishi
                                                        0
                                                                                     Anna Sali
                                       Sunak
 USR_015
USR_016
                         Vedavalli
                                                        a
            PSGR
                                       Srinath
                                                            1973-04-14
                                                                           560054
                                                                                     Church Street, Bangalore
                                                            1974-04-14
                                                                           600043
                                                                                     American Street
            PSGR
                         Subbu
                                       Saravana
                                                        0
 USR_017
            PSGR
                         Sheela
                                       Dixit
                                                        0
                                                            1975-04-08
                                                                           560048
                                                                                     Kasturba Road
 USR_018
            PSGR
                         Margaret
                                       Alva
                                                        0
                                                            1976-04-14
                                                                           560008
                                                                                     New BEL Road
 USR_019
            PSGR
                                                            1977-04-14
                                                                           600046
                                                                                     Mint Street
                                       Kumar
 USR_020
                         Anshu
                                       Bhardwaj
                                                            1978-04-14
                                                                           575001
                                                                                     KSR Road
 USR_021
                                                            1979-04-08
                                                                           560012
                                                                                     Old Airport Road, Bangalore
                         Suma
                                        Sampat
                         Srihari
                                                            1980-04-14
 USR_022
            PSGR
                                       Udupa
                                                        0
                                                                           560015
                                                                                     Suranjan Das Road
 USR_023
            PSGR
                         Satish
                                       Kotian
                                                            1981-04-14
                                                                           600044
                                                                                     T Nagar
                                                                                     M G Road, Bangalore
                                                            1982-04-08
 USR 024
                         Shradha
                                                        0
                                                                           560006
            PSGR
                                       Nayar
 USR 025
                                       Solanki
                                                            1983-04-08
            PSGR
                         Manisha
                                                        0
                                                                           575030
                                                                                     M G Road
 USR_026
USR_027
                                                            1984-04-14
                                                        0
                                                                           560059
                                                                                     NAL Wind Tunnel Road
            PSGR
                         Bharti
                                       Devgan
                                                            1985-04-14
            PSGR
                         Roopa
                                       Ram
                                                        0
                                                                           575023
                                                                                     Bunder Road
                         Pallavi
                                                                                     Lavelle Road
 USR_028
            PSGR
                                       Ram
                                                        a
                                                            1986-04-08
                                                                           560044
 USR_029
            PSGR
                                       Naik
                                                            1987-04-14
                                                                           600045
                                                                                     Thiru V ka Salai
                         Ravi
 USR_030
            PSGR
                         Virat
                                       Murthy
                                                            1988-04-14
                                                                           575011
                                                                                     Bejai New Road
33 rows in set (0.001 sec)
lariaDB [cs667_rr]> 🕳
```

```
Command Prompt - mysgl -u root
MariaDB [cs667_rr]> DELIMITER $$
MariaDB [cs667_rr]> CREATE procedure calculate_age()
           DECLARE TodayDate DATE;
    ->
    ->
           SELECT CURRENT DATE() INTO TodayDate;
    ->
           UPDATE user
           SET age= YEAR(TodayDate) -year(dob);
    ->
    -> END$$
Query OK, 0 rows affected (0.021 sec)
MariaDB [cs667 rr]> DELIMITER ;
MariaDB [cs667 rr]> call calculate age();
Query OK, 34 rows affected (0.019 sec)
```

After procedure call

```
Command Prompt - mysql -u root
MariaDB [cs667_rr]> select * from user;
 user_id | user_type | fname
                                      lname
                                                           dob
                                                                         | pincode | street_no
                                                   age
  ADM 001
            ADMIN
                                        Modi
                                                             1989-04-14
                                                                            600047
                                                                                      Old Jail Road
                          Narendra
                                                        33
 ADM_002
ADM_003
                                                             1990-04-14
            ADMTN
                                                        32
                                                                            640012
                          Droupadi
                                        Murmu
                                                                                      High Street
                                                                                      Pumpwell Road
            ADMIN
                                                             1991-04-08
                                                                             575003
                          Manmohan
                                        Singh
                                                        31
 USR_001
USR_002
            PSGR
                            Ajit
                                        Ullal
                                                        51
                                                             1971-01-01
                                                                            560001
                                                                                      10, Janpath
            PSGR
                          Muhammed
                                        Ali
                                                        22
                                                             2000-10-09
                                                                             560003
                                                                                      10, Downing
  USR_003
             PSGR
                          Sai Deepak
                                        Reddy
                                                             1996-12-12
                                                                             600001
                                                                                      14, Kailsh Marg
                          Rudra
  USR_004
             PSGR
                                        Agarwal
                                                        26
                                                             1996-12-13
                                                                             600042
                                                                                      5, Lohia Garden
  USR_005
             PSGR
                          Rahul
                                                        25
                                                             1997-12-14
                                                                             600067
                                                                                       1, Pink Street
                                        Khanna
  USR_006
             PSGR
                          Nirmala
                                        Seturaman
                                                        24
                                                             1998-12-15
                                                                             560105
                                                                                         Blue Avenue
  USR_007
                          Smriti
                                        Irani
                                                        23
                                                             1999-12-16
                                                                             575014
                                                                                      4, Banyan Avenie
  USR_008
             PSGR
                          Ajit
                                        Sethi
                                                        56
                                                             1966-04-14
                                                                             575001
                                                                                         Poes Garden
                                                                                      7, Dhamaka street
  USR_009
             PSGR
                          Arjun
                                        Allu
                                                             1967-04-08
                                                                             575020
                                                                                      8, Clone Colony
56, Brigade Road
  USR 010
             PSGR
                          Samanta
                                        Prabhu
                                                        54
                                                             1968-04-14
                                                                            600042
  USR_011
                                                             1969-04-14
                                                                             560003
             PSGR
                          Kiran
                                        Bedi
                                        Gandhi
                          Rahul
                                                             1970-04-08
                                                                            475001
  USR 012
             PSGR
                                                        52
                                                                                      Mirza road
  USR_013
                          Rashkit
                                        Shetty
                                                             1971-04-14
             PSGR
                                                        51
                                                                            560009
                                                                                      JC Road
 USR_014
USR_015
            PSGR
                          Rishi
                                        Sunak
                                                        50
                                                             1972-04-14
                                                                            600034
                                                                                      Anna Sali
                          Vedavalli
                                        Srinath
                                                             1973-04-14
                                                                             560054
            PSGR
                                                        49
                                                                                      Church Street, Bangalore
 USR_016
USR_017
             PSGR
                          Subbu
                                        Saravana
                                                        48
                                                             1974-04-14
                                                                             600043
                                                                                      American Street
            PSGR
                          Sheela
                                        Dixit
                                                        47
                                                             1975-04-08
                                                                             560048
                                                                                      Kasturba Road
  USR_018
            PSGR
                          Margaret
                                        Alva
                                                        46
                                                             1976-04-14
                                                                             560008
                                                                                      New BEL Road
  USR_019
            PSGR
                          Arun
                                        Kumar
                                                        45
                                                             1977-04-14
                                                                             600046
                                                                                      Mint Street
  USR_020
             PSGR
                          Anshu
                                        Bhardwaj
                                                        44
                                                             1978-04-14
                                                                             575001
                                                                                      KSR Road
                                                                                      Old Airport Road, Bangalore
  USR_021
             PSGR
                          Suma
                                        Sampat
                                                        43
                                                             1979-04-08
                                                                             560012
  USR_022
                          Srihari
                                                             1980-04-14
                                                                             560015
                                                                                      Suranjan Das Road
             PSGR
                                        Udupa
                                                        42
  USR_023
                                                        41
                                                             1981-04-14
                                                                             600044
             PSGR
                          Satish
                                        Kotian
                                                                                       T Nagar
  USR_024
             PSGR
                          Shradha
                                                        40
                                                             1982-04-08
                                                                             560006
                                                                                      M G Road, Bangalore
                                        Nayar
                                        Solanki
  USR_025
             PSGR
                          Manisha
                                                        39
                                                             1983-04-08
                                                                             575030
                                                                                      M G Road
  USR_026
             PSGR
                          Bharti
                                                             1984-04-14
                                                                             560059
                                                                                      NAL Wind Tunnel Road
                                        Devgan
                                                        38
                                                        37
                                                                                      Bunder Road
  USR 027
                                                             1985-04-14
                                                                             575023
            PSGR
                          Roopa
                                        Ram
  USR 028
            PSGR
                          Pallavi
                                                        36
                                                             1986-04-08
                                                                             560044
                                                                                      Lavelle Road
                                        Ram
                                                                                      Thiru V ka Salai
Bejai New Road
 USR_029
USR_030
                                                        35
                                                             1987-04-14
                                                                            600045
            PSGR
                          Ravi
                                        Naik
            PSGR
                          Virat
                                                        34
                                                             1988-04-14
                                        Murthy
                                                                            575011
MariaDB [cs667_rr]>
MariaDB [cs667_rr]>
MariaDB [cs667_rr]>
```