

DBMS Lab 8

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Question 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"*/

DELIMITER

\$\$

CREATE FUNCTION ticket_booked_204(

UID VARCHAR(20),

travel_date DATE

) RETURNS VARCHAR(255) DETERMINISTIC BEGIN

DECLARE

cnt INT ; DECLARE message VARCHAR(255) ;

SET

cnt =(

SELECT

COUNT(*)

FROM

ticket_204 AS t

WHERE

UID = t.Passenger_id AND MONTH(travel_date) = MONTH(t.Travel_date)

) ; IF cnt > 3 THEN

SET

message = "cannot purchase tickets current limit is over" ; ELSE

SET

message = "can purchase tickets" ;

END IF ; RETURN message ;

END ; \$\$

DELIMITER

;

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.1057 seconds.)

```
CREATE FUNCTION ticket_booked_204( UID VARCHAR(20), travel_date DATE ) RETURNS VARCHAR(255) DETERMINISTIC BEGIN DECLARE cnt INT ; DECLARE message VARCHAR(255) ; SET cnt =( SELECT COUNT(*) FROM ticket_204 AS t WHERE UID = t.Passenger_id AND MONTH(travel_date) = MONTH(t.Travel_date) ) ; IF cnt > 3 THEN SET message = "cannot purchase tickets current limit is over" ; ELSE SET message = "can purchase tickets" ; END IF ; RETURN message ; END ;;
```

/*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”*/

SELECT DISTINCT

(Passenger_id),

ticket_booked_204(Passenger_id, Travel_date) AS 'can book ticket?'

FROM

ticket_204;

✔ Showing rows 0 - 8 (9 total, Query took 0.0039 seconds.)

```
SELECT DISTINCT (Passenger_id), ticket_booked_204(Passenger_id, Travel_date) AS 'can book ticket?' FROM ticket_204;
```

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☐ Show all | Number of rows: Filter rows:

Extra options

Passenger_id	can book ticket?
ADM_001	can purchase tickets
ADM_003	can purchase tickets
USR_002	can purchase tickets
ADM_002	can purchase tickets
USR_007	can purchase tickets
USR_008	can purchase tickets
USR_009	can purchase tickets
USR_010	can purchase tickets
USR_012	can purchase tickets

Question 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.*/

DELIMITER

\$\$

CREATE PROCEDURE update_age_204(

IN UID VARCHAR(255),

IN DOB DATE,

OUT msg VARCHAR(30)

)

BEGIN

DECLARE

age INT ; IF DOB > SYSDATE() THEN

SET

msg = 'Invalid DOB' ; ELSE

UPDATE

passenger_204

SET

Age =(DATEDIFF(SYSDATE(), DOB)) / 365

WHERE

User_ID = UID ;

UPDATE

passenger_204

SET

DOB = DOB

WHERE

User_ID = UID ;

SET

msg = 'Age updated Successfully' ;

END IF ;

END ; \$\$

DELIMITER

;

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.1120 seconds.)

```
CREATE PROCEDURE age_replacement( IN uid VARCHAR(10), OUT msg VARCHAR(255) ) BEGIN DECLARE new_age INT ; UPDATE passenger_204 SET new_age =( SELECT YEAR(CURRENT_DATE) - YEAR(DOB) FROM passenger_204 ) WHERE User_ID = uid ; UPDATE passenger_204 SET age = new_age WHERE User_ID = uid ; SET msg = "Age updated succesfully" ; END ;;
```

Before update

✔ Showing rows 0 - 24 (33 total, Query took 0.0004 seconds.)

```
SELECT passenger_204.User_ID, passenger_204.age FROM passenger_204;
```

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1 ▾

> >>

☐ Show all

Number of rows: 25 ▾

Extra options

User_ID	age
ADM_001	33
ADM_002	32
ADM_003	31
USR_001	51
USR_002	21
USR_003	25
USR_004	25
USR_005	24
USR_006	23
USR_007	22
USR_008	56
USR_009	55
USR_010	54
USR_011	53
USR_012	52
USR_013	51
USR_014	50
USR_015	49
USR_016	48
USR_017	47
USR_018	46
USR_019	45
USR_020	44
USR_021	43
USR_022	42

/*How to call stored procedure*/

CALL

```
update_age_204("USR_001", "2002-01-10", @A);
```

SELECT

```
@a;
```

SELECT

```
*
```

FROM

```
passenger_204
```

WHERE

```
passenger_204.User_ID = "USR_001";
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)

```
SELECT @a;
```

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☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

@a

Age updated Successfully

✓ Showing rows 0 - 0 (1 total, Query took 0.0009 seconds.)

```
SELECT * FROM passenger_204 WHERE passenger_204.User_ID = "USR_001";
```

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☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

User_ID	Firstname	Lastname	age	DOB	pincode	user_type	street_number
USR_001	Ajit	Ullal	21	2002-01-10	560001	PSGR	10, Janpath