

DBMS

LAB 8

Functions and Procedures

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1. Function

```
DELIMITER $$
CREATE FUNCTION final_func(user varchar(20))
RETURNS varchar(20)
BEGIN
DECLARE res varchar(20);
DECLARE tot_count int;
SET tot_count = (SELECT COUNT(*) FROM ticket NATURAL JOIN ticket_passenger WHERE
ticket.pnr=prn AND
MONTH(ticket.travel_date)=MONTH(CURRENT_DATE) GROUP BY ticket.pnr);
IF tot_count > 3 THEN
SET res = "NOT ELIGIBLE";
ELSE
SET res = "ELIGIBLE";
END IF;
RETURN res;
END;$$
DELIMITER ;
SELECT final_func(pnr),pnr from ticket;
```

```

MariaDB [peslug20cs645_railway]> DELIMITER $$
MariaDB [peslug20cs645_railway]> CREATE FUNCTION final_func(user varchar(20))
-> RETURNS varchar(20)
-> BEGIN
-> DECLARE res varchar(20);
-> DECLARE tot_count int;
-> SET tot_count = (SELECT COUNT(*) FROM ticket NATURAL JOIN ticket_passenger WHERE ticket.pnr=pnr AND
-> MONTH(ticket.travel_date)=MONTH(CURRENT_DATE) GROUP BY ticket.pnr);
-> IF tot_count > 3 THEN
-> SET res = "NOT ELIGIBLE";
-> ELSE
-> SET res = "ELIGIBLE";
-> END IF;
-> RETURN res;
-> END;$$

Query OK, 0 rows affected (0.015 sec)

MariaDB [peslug20cs645_railway]> DELIMITER ;
MariaDB [peslug20cs645_railway]> SELECT final_func(pnr),pnr from ticket;

+-----+-----+
| final_func(pnr) | pnr |
+-----+-----+
| ELIGIBLE        | PNR004 |
| ELIGIBLE        | PNR010 |
| ELIGIBLE        | PNR014 |
| ELIGIBLE        | PNR015 |
| ELIGIBLE        | PNR003 |
| ELIGIBLE        | PNR006 |
| ELIGIBLE        | PNR005 |
| ELIGIBLE        | PNR012 |
| ELIGIBLE        | PNR002 |
| ELIGIBLE        | PNR008 |
| ELIGIBLE        | PNR001 |
| ELIGIBLE        | PNR007 |
| ELIGIBLE        | PNR011 |
| ELIGIBLE        | PNR021 |
+-----+-----+

14 rows in set (0.002 sec)

```

2. Procedure

```

DELIMITER $$
CREATE procedure age_updation(
IN UID varchar(30),IN DB date, OUT msg varchar(30))
BEGIN
DECLARE age int; IF DB>sysdate() THEN
set msg= 'Invalid DoB';
ELSE
update train_user
set Age=(datediff(sysdate(),DB))/365 where user_id= UID;
update train_user
set DOB=DB where user_id=UID;
set msg='Age updated Successfully';
END IF;
END;$$
DELIMITER ;
CALL age_updation('USR_001','2002-08-26',@A);
SELECT @A;
select * from train_user where user_id='USR_001';

```

```

MariaDB [peslug20cs645_railway]> DELIMITER $$
MariaDB [peslug20cs645_railway]> CREATE procedure age_updation(
  -> IN UID varchar(30),IN DB date, OUT msg varchar(30))
  -> BEGIN
  -> DECLARE age int; IF DB>sysdate() THEN
  -> set msg= 'Invalid DoB';
  -> ELSE
  -> update train_user
  -> set Age=(datediff(sysdate(),DB))/365 where user_id= UID;
  -> update train_user
  -> set DOB=DB where user_id=UID;
  -> set msg='Age updated Successfully';
  -> END IF;
  -> END;$$
Query OK, 0 rows affected (0.024 sec)

MariaDB [peslug20cs645_railway]> DELIMITER ;
MariaDB [peslug20cs645_railway]> CALL age_updation('USR_001','2002-08-26',@A);
Query OK, 2 rows affected (0.007 sec)

MariaDB [peslug20cs645_railway]> SELECT @A;
+-----+
| @A |
+-----+
| Age updated Successfully |
+-----+
1 row in set (0.000 sec)

MariaDB [peslug20cs645_railway]> select * from train_user where user_id='USR_001';
+-----+-----+-----+-----+-----+-----+-----+-----+
| user_id | user_type | firstname | lastname | age | dob | pincode | street_number |
+-----+-----+-----+-----+-----+-----+-----+-----+
| USR_001 | PSGR | Ajit | Ullal | 20 | 2002-08-26 | 560001 | 10, Janpath |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

```