

## DBMS LAB 8 – Functions and Procedures

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### Q 1) Functions

```
MariaDB [cs_peslug20cs648_railways]> DELIMITER $$
MariaDB [cs_peslug20cs648_railways]> CREATE FUNCTION final_func(user varchar(20))
-> RETURNS varchar(20)
-> BEGIN
-> DECLARE res varchar(20);
-> DECLARE tot_count int;
-> SET tot_count = (SELECT COUNT(*) FROM ticket NATURAL JOIN ticket_passenger WHERE ticket.pnr=pnr AND
-> MONTH(ticket.travel_date)=MONTH(CURRENT_DATE) GROUP BY ticket.pnr);
-> IF tot_count > 3 THEN
-> SET res = "NOT ELIGIBLE";
-> ELSE
-> SET res = "ELIGIBLE";
-> END IF;
-> RETURN res;
-> END;$$
Query OK, 0 rows affected (0.013 sec)

MariaDB [cs_peslug20cs648_railways]> DELIMITER ;
MariaDB [cs_peslug20cs648_railways]> 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 (0.037 sec)

### Q 2) Procedure

```
MariaDB [cs_peslug20cs648_railways]> DELIMITER $$
MariaDB [cs_peslug20cs648_railways]> CREATE procedure age_updatation(
-> IN UID varchar(30),IN DB date, OUT msg varchar(30))
-> BEGIN
-> DECLARE age int; IF DB>sysdate() THEN
-> set msg= 'Invalid DoB';
-> ELSE
-> update train_user
-> set age=(datediff(sysdate(),DB))/365 where user_id= UID;
-> update train_user
-> set dob=DB where user_id=UID;
-> set msg='Age updated Successfully';
-> END IF;
-> END;$$
Query OK, 0 rows affected (0.017 sec)

MariaDB [cs_peslug20cs648_railways]> DELIMITER ;
MariaDB [cs_peslug20cs648_railways]> CALL age_updatation('USR_001','2002-08-26',@A);
Query OK, 2 rows affected (0.011 sec)

MariaDB [cs_peslug20cs648_railways]> SELECT @A;
```

@A
Age updated Successfully

1 row in set (0.000 sec)

```
MariaDB [cs_peslug20cs648_railways]> 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 (0.001 sec)