

LAB QUIZ

PES1UG20CS150

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SET No 1:

1: List in descending order the number of requests sent by hospitals from the locality 'Jayanagar'.

```
MariaDB [PES1UG20CS150_BLOODBANK]> select hospital_id,count(request_id) from hospital_request natural join hospital where h_locality="Jayanagar" order by count(request_id);
```

hospital_id	count(request_id)
H032	2

```
1 row in set (0.010 sec)
```

2: Write a query to display the number of donors and the number of request for particular blood groups in the ascending order of requests

```
MariaDB [PES1UG20CS150_BLOODBANK]> select * from (select blood_group,count(request_id) as req_count from requests group by blood_group) LHS natural join (select blood_group,count(d_id) as donor_count from donor group by blood_group) RHS order by req_count;
```

blood_group	req_count	donor_count
B-	1	1
O-	2	1
A+	2	2
A-	2	2
AB-	2	1
AB+	4	4
O+	5	3

```
7 rows in set (0.005 sec)
```

3: Write a trigger to prevent the insertion of a donor belonging to the locality "Banashankari".

```
BBM_TRIGGER - Notepad
```

```
File Edit Format View Help
DELIMITER $$
CREATE OR REPLACE TRIGGER prevent_insert
  BEFORE INSERT ON donor
  FOR EACH ROW
BEGIN
  IF NEW.d_locality="Banashankari" THEN
    SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Area is not servicable';
  END IF;
END $$
DELIMITER ;
```

```

MariaDB [PES1UG20CS150_BLOODBANK]> insert into donor values("D0035","Apoorva","Nemlekar","F","O+","6877719633","10th
cross",23,"Banashankari",34,"Diabetes","6037","O+",714,"2022-11-30");
ERROR 1644 (45000): Area is not servicable
MariaDB [PES1UG20CS150_BLOODBANK]>

```

4: Write a function to set the health status of a donor. If the donor has some associated disease set health status to “Fair”, otherwise to “Good”

BBM_FUNCTION - Notepad

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```

DELIMITER $$
CREATE OR REPLACE FUNCTION health(disease VARCHAR(50))
RETURNS VARCHAR(4)
DETERMINISTIC
BEGIN
    DECLARE msg varchar(4);
    IF disease = "NIL" OR disease = "Nil" THEN
        SET msg = "Good";
    ELSE
        SET msg ="Fair";
    END IF;
    RETURN msg;
END; $$
DELIMITER ;

SELECT d_name, d_disease, health(d_disease) AS result FROM donor;

```

```

MariaDB [PES1UG20CS150_BLOODBANK]> source C:/Users/Gaurav/Desktop/BBM_FUNCTION.sql
Query OK, 0 rows affected, 1 warning (0.019 sec)

```

d_name	d_disease	result
Vishnu	NIL	Good
Sheeba	NIL	Good
Allina	Diabetes	Fair
Abhibav	BP	Fair
Aaron	NIL	Good
Anirudh	NIL	Good
Dev	Diabetes	Fair
Nisar	Anemia	Fair
Joshua	Nil	Good
Shrey	Nil	Good
Varad	Nil	Good
Shashank	Nil	Good
Nevil	Nil	Good
Nishok	Nil	Good
Aditi	Nil	Good

15 rows in set (0.002 sec)