

DBMS LAB QUIZ

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SRN: PES1UG20CS181

SECTION : C

Q1)

Sql command:

```
SELECT patient.patient_name, patient.patient_id
FROM patient JOIN patient_request ON patient.patient_id =
patient_request.patient_id
JOIN requests ON patient_request.request_id = requests.request_id
WHERE patient.blood_group = requests.blood_group;
```

Screenshot:

```
MariaDB [pes1ug20cs181_bloodbank_management]> SELECT patient.patient_name, patient.patient_id
-> FROM patient JOIN patient_request ON patient.patient_id = patient_request.patient_id
-> JOIN requests ON patient_request.request_id = requests.request_id
-> WHERE patient.blood_group = requests.blood_group;
Empty set (0.048 sec)

MariaDB [pes1ug20cs181_bloodbank_management]>
```

Q2)

Sql command:

```
select ta_name, count(*) as numbers_of_blood_units from Technical_Analyst_Blood
Natural Join Technical_Analyst Group By ta_id order By numbers_of_blood_units;
```

Screenshot:

```
MariaDB [peslug20cs181_bloodbank_management]> select ta_name,count(*) as numbers_of_blood_units from Technical_Analyst_Blood
Natural Join Technical_Analyst Group By ta_id order By numbers_of_blood_units;
```

ta_name	numbers_of_blood_units
Dev	1
Varshini	1
Vaidehi	2
Sanjeeth	2
Varun	2
Sathish	2

```
6 rows in set (0.007 sec)
```

Q3)

Sql command:

```
DELIMITER $$
CREATE FUNCTION f1(bg varchar(3))
RETURNS varchar(20)
DETERMINISTIC
BEGIN
    DECLARE msg varchar(20);
    IF bg="O-" THEN
        SET msg="Universal Donor";
    ELSEIF bg="AB+" THEN
        SET msg="Universal Receipient";
    END IF;
RETURN msg;
END $$
DELIMITER ;

DELIMITER $$
CREATE PROCEDURE identify_donor()
BEGIN
    select d_id,f1(blood_group) as dtype from Donor;
END; $$
DELIMITER ;

CALL identify_donor();
```

Screenshot:

```

MariaDB [pes1ug20cs181_bloodbank_management]> DELIMITER $$
MariaDB [pes1ug20cs181_bloodbank_management]> CREATE FUNCTION f1(bg varchar(3))
  -> RETURNS varchar(20)
  -> DETERMINISTIC
  -> BEGIN
  ->   DECLARE msg varchar(20);
  ->   IF bg="O-" THEN
  ->     SET msg="Universal Donor";
  ->   ELSEIF bg="AB+" THEN
  ->     SET msg="Universal Receipient";
  ->   END IF;
  ->   RETURN msg;
  -> END $$
Query OK, 0 rows affected (0.006 sec)

MariaDB [pes1ug20cs181_bloodbank_management]> DELIMITER ;

```

```

MariaDB [pes1ug20cs181_bloodbank_management]> DELIMITER $$
MariaDB [pes1ug20cs181_bloodbank_management]> CREATE PROCEDURE identify_donor()
  -> BEGIN
  ->   select d_id,f1(blood_group) as dtype from Donor;
  -> END; $$
Query OK, 0 rows affected (0.011 sec)

```

```

MariaDB [pes1ug20cs181_bloodbank_management]> DELIMITER ;
MariaDB [pes1ug20cs181_bloodbank_management]>
MariaDB [pes1ug20cs181_bloodbank_management]> CALL identify_donor();

```

d_id	dtype
D0020	NULL
D0021	Universal Receipient
D0022	NULL
D0023	NULL
D0024	Universal Receipient
D0025	NULL
D0026	NULL
D0027	NULL
D0028	Universal Donor
D0029	NULL
D0030	NULL
D0031	Universal Receipient
D0032	NULL
D0033	Universal Receipient
D0034	NULL

```

15 rows in set (0.002 sec)

Query OK, 0 rows affected (0.038 sec)

```

```

MariaDB [pes1ug20cs181_bloodbank_management]>

```

Q4)

Command:

```

DELIMITER $$
CREATE TRIGGER dontadd

```

```

BEFORE INSERT ON blood_bank
FOR EACH ROW
BEGIN
  IF NEW.bb_locality IN (SELECT bb_locality FROM blood_bank) THEN
    SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'requires statutory permission';
  END IF;
END; $$
DELIMITER ;

```

Screenshot:

```

ERROR 1146 (42S02): Table 'peslug20cs181_bloodbank_management.bloodbank' doesn't exist
MariaDB [peslug20cs181_bloodbank_management]> select * from blood_bank;
+-----+-----+-----+-----+-----+
| bb_id | bb_name          | bb_street | bb_building_no | bb_locality |
+-----+-----+-----+-----+-----+
| 1000  | Red Cross Blood Bank | MG Road   | 121             | Central Bangalore |
| 1001  | Rotary Blood Bank    | Brigade Road | 201             | North Bangalore   |
| 1002  | Lion's Blood Bank    | Turahalli Road | 324             | South Bangalore   |
| 1003  | Minerva Blood Bank   | ECC Road   | 444             | East Bangalore    |
+-----+-----+-----+-----+-----+
4 rows in set (0.018 sec)

MariaDB [peslug20cs181_bloodbank_management]> insert into blood_bank values(1004,"Himakar Blood Bank","Pes University road",813,"South Banagalore");
Query OK, 1 row affected (0.014 sec)

MariaDB [peslug20cs181_bloodbank_management]> insert into blood_bank values(1004,"Himakar Blood Bank","Pes University road",813,"South Banagalore");
ERROR 1644 (45000): requires statutory permission
MariaDB [peslug20cs181_bloodbank_management]> insert into blood_bank values(1004,"Himakar Blood Bank","Pes University road",813,"South Banagalore");

```