## **DBMS EXPERIMENTS**

## AMOGH GARG-2020UCO1688 EXPERIMENT-3 QUESTION-1

- 1. UNION:SELECT cust\_fname FROM customer UNION SELECT cust\_num FROM invoice;
- 2. GROUP BY: SELECT prod num, sum(inv amount) FROM invoice GROUP BY prod num;
- 3. ORDER BY: SELECT \* FROM customer ORDER BY Cust balance;
- 4. HAVING: SELECT \* FROM customer HAVING Cust balance > 10000;
- 5. LIMIT: SELECT \* FROM customer ORDER BY Cust\_balance DESC LIMIT 3;
- 6. LIKE: SELECT \* FROM customer HAVING Cust fname like "A%";

```
MariaDB [question_2]> SELECT cust_fname FROM customer UNION SELECT cust_num FROM invoice;
 cust_fname
 Amogh
 Mukesh
 Narender
 Bill
 2
 4
8 rows in set (0.009 sec)
MariaDB [question_2]> SELECT prod_num, sum(inv_amount) FROM invoice GROUP BY prod_num;
 prod_num | sum(inv_amount) |
        1 | 2 |
                     750000
        3
                        800
        4
                        500
4 rows in set (0.005 sec)
MariaDB [question_2]> SELECT * FROM customer ORDER BY Cust_balance;
 cust_num | cust_lname | cust_fname | cust_balance | cust_dob |
                        Amogh
                                                0 | NULL
           Garg
            Ambani
                       | Mukesh
| Bill
                                              250
                                                     NULL
        4
            Gates
        4 | Gates
3 | Modi
                                              1000
                                                     NULL
                        Narender
                                              1800 | NULL
4 rows in set (0.003 sec)
MariaDB [question_2]> SELECT * FROM customer HAVING Cust_balance > 10000;
Empty set (0.001 sec)
```

## **QUESTION-2**

- 1. Cust\_ID is the primary key in Customer table. Bicycle\_ID is the primary key in Bicycle table and foreign key in Service table. In BicycleModel ModelNo is the primary key.
- 2. SELECT Name FROM Customer C, Bicycle B, BicycleModel BM WHERE
- C.Cust\_ID=B.Cust\_ID AND B.ModelNo=BM.ModelNo AND Manufacturer= "Honda";
- 3. SELECT Cust ID, Name FROM Customer WHERE ReferID= "1"
- 4. SELECT Manufacturer FROM Bicycle B, BicycleModel BM WHERE
- B.ModelNo=BM.ModelNo AND Color= "Red";
- 5. SELECT ModelNo FROM Bicycle B, Service S WHERE B.Bicyle\_ID=S.Bicycle\_ID;