/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Problem Statement:

Group-A

Design at least 10 SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View.

Batch : TEB-03 Roll no :61

Name : Rohit Rajendra Sonje

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

//Loging to server

gescoe@gescoe:~$ mysql -h192.168.2.232 -u TEB61

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 124

Server version: 5.5.49-0ubuntu0.14.04.1 (Ubuntu)

Copyright (c) 2000, 2017, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its

affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//using database

mysql> use student\_t;

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1] creating first table

mysql> create table student(r\_no int primary key,name varchar(25),dept varchar(25));

Query OK, 0 rows affected (0.07 sec)\*\*

2]

//\*\*insert row in table(insert values in table)

mysql> insert into student values(1,'aa','compter');

Query OK, 1 row affected (0.03 sec)

3]first table content

mysql> select \* from student;

+------+--------+----------+

| r\_no | name | dept |

+------+--------+----------+

| 1 | pramod | computer |

| 2 | sham | computer |

| 3 | kunal | computer |

| 5 | salman | ele |

| 8 | alpesh | mech |

+------+--------+----------+

5 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

4] creating second table

mysql> create table marks(r\_no int primary key,name varchar(25),per int);

Query OK, 0 rows affected (0.07 sec)\*\*

5]

//\*\*insert row in table(insert values in table)

mysql> insert into marks values(1,'pramod',88);

Query OK, 1 row affected (0.03 sec)

6]mysql> select \* from marks;

+------+--------+------+

| r\_no | name | per |

+------+--------+------+

| 1 | pramod | 88 |

| 2 | sham | 45 |

| 4 | ram | 55 |

| 5 | salman | 99 |

| 7 | rohit | 85 |

+------+--------+------+

5 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*JOINS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

7] Join operations on Tables.

a]\*\*Inner Join :-

mysql> select student.r\_no,student.name,student.dept,marks.per from student inner join marks on student.r\_no=marks.r\_no;

+------+--------+----------+------+

| r\_no | name | dept | per |

+------+--------+----------+------+

| 1 | pramod | computer | 88 |

| 2 | sham | computer | 45 |

| 5 | salman | ele | 99 |

+------+--------+----------+------+

3 rows in set (0.00 sec)

b] \*\*Left Outer Join:-

mysql> select student.r\_no,student.name,student.dept,marks.per from student left outer join marks on student.r\_no=marks.r\_no;

+------+--------+----------+------+

| r\_no | name | dept | per |

+------+--------+----------+------+

| 1 | pramod | computer | 88 |

| 2 | sham | computer | 45 |

| 3 | kunal | computer | NULL |

| 5 | salman | ele | 99 |

| 8 | alpesh | mech | NULL |

+------+--------+----------+------+

5 rows in set (0.01 sec)

c] \*\*Right Outer Join:-

mysql> select student.r\_no,student.name,student.dept,marks.per from student right outer join marks on student.r\_no=marks.r\_no;

+------+--------+----------+------+

| r\_no | name | dept | per |

+------+--------+----------+------+

| 1 | pramod | computer | 88 |

| 2 | sham | computer | 45 |

| NULL | NULL | NULL | 55 |

| 5 | salman | ele | 99 |

| NULL | NULL | NULL | 85 |

+------+--------+----------+------+

5 rows in set (0.00 sec)

d] \*\*Full Join

\*\*Full Join is not supported in sql, it's supported in Oracle.

\*\*It is done in sql using UNION.

mysql> (select student.r\_no,student.name,student.dept,marks.per from student left outer join marks on student.r\_no=marks.r\_no) union (select student.r\_no,student.name,student.dept,marks.per from student right outer join marks on student.r\_no=marks.r\_no);

+------+--------+----------+------+

| r\_no | name | dept | per |

+------+--------+----------+------+

| 1 | pramod | computer | 88 |

| 2 | sham | computer | 45 |

| 3 | kunal | computer | NULL |

| 5 | salman | ele | 99 |

| 8 | alpesh | mech | NULL |

| NULL | NULL | NULL | 55 |

| NULL | NULL | NULL | 85 |

+------+--------+----------+------+

7 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*SUBQUERIES\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mysql> select \* from marks where Name IN(Select Name from marks Where Per=88);

+------+--------+----------+------+

| r\_no | name | dept | per |

+------+--------+----------+------+

| 1 | pramod | computer | 88 |

1 row in set (0.02 sec)

mysql> select \* from Student where Name IN(Select Name from Student Where Percentage>76.23);

+--------+--------+---------+------------+

| Rollno | Name | Address | Percentage |

+--------+--------+---------+------------+

| 1 | Rohit | Nashik | 89.23 |

| 5 | Swati | Satana | 90.56 |

+--------+--------+---------+------------+

2 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*VIEW\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mysql> create table Student(Rollno int(4),Name varchar(20),Address varchar(20),Percentage Decimal(18,2));

Query OK, 0 rows affected (0.30 sec)

mysql> insert into Student(Rollno, Name, Address, Percentage) values(1, "Rohit", "Nashik", 89.23),(2, "salman", "Pune", 76.23),(3, "alpesh", "Mumbai", 56.53),(4, "Pramod", "Delhi", 66.93

Query OK, 8 rows affected (0.09 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> select \* from Student;

+--------+---------+----------+------------+

| Rollno | Name | Address | Percentage |

+--------+---------+----------+------------+

| 1 | Rohit | Nashik | 89.25 |

| 2 | salman | Pune | 76.27 |

| 3 | alpesh | Mumbai | 56.53 |

| 4 | Pramod | Delhi | 66.93 |

+--------+---------+----------+------------+

8 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*CREATE VIEWS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mysql> create VIEW Stud AS SELECT Rollno, Name FROM Student;

Query OK, 0 rows affected (0.05 sec)

mysql> select \* from Stud;

+--------+---------+

| Rollno | Name |

+--------+---------+

| 1 | Rohit |

| 2 | salman |

| 3 | alpesh |

| 4 | Pramod |

+--------+---------+

8 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* UPDATE VIEW\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mysql> UPDATE Stud set Rollno = 9 WHERE Name = "Pramod";

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from Stud;

+--------+---------+

| Rollno | Name |

+--------+---------+

| 1 | Rohit |

| 2 | salman |

| 3 | alpesh |

| 9 | Pramod |

+--------+---------+

8 rows in set (0.00 sec)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*DROP VIEW\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

mysql> DROP view Stud;

Query OK, 0 rows affected (0.00 sec)