Lab 6

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Assignment 1

Q1.

Q2.

```
mysql> select emp_id, emp_name
    -> from employee
    -> where income >
    -> (select avg(income) from employee)
-> order by income desc;
  emp_id | emp_name |
    2514
           Vasin
    2524
            Vasin
    2513
            Manas
    2523
            Manas
    2511
            Adam
    2521
            Adam
    2508
            Obama
    2518
            Obama
 rows in set (0.00 sec)
```

```
[mysql> select emp_id, emp_name from employee
    -> where emp_dept in
    -> (select emp_dept from employee
    -> where emp_name like "%n%");
  emp_id | emp_name
    2505
           peter
    2506
           Mark
           Donald
    2507
    2509
           Linklon
    2510
           Kane
    2512
           Mac
    2513
           Manas
    2514
           Vasin
    2515
           peter
    2516
           Mark
    2517
           Donald
    2519
           Linklon
    2520
           Kane
    2522
           Mac
    2523
           Manas
           Vasin
    2524
16 rows in set (0.01 sec)
```

Q4.

Q5.

Assignment 2

Q1.

Q2.

```
mysql> select bname from boats
    -> where bid in (
    -> select bid from reserves
    -> where sid in
    -> (select distinct sid from sailors
    -> where sname = "Bob")
[    -> );
Empty set (0.00 sec)
```

Q3.

```
mysql> select sname from sailors
-> where sid in (
-> select sid from reserves
-> where bid in
-> (select bid from boats
-> where color = 'red')
[ -> );
+-----+
| sname |
+-----+
| Dustin |
| Lubber |
| Horatio |
+------+
3 rows in set (0.00 sec)
```

Q4.

Q5.

```
mysql> select sid, sname from sailors
    -> where sid in
    -> (select sid from reserves r1
    -> where sid in
    -> (select sid from reserves r2
[    -> where r1.day = r2.day and r1.bid != r2.bid));
+----+
| sid | sname |
+----+
| 22 | Dustin |
+----+
1 row in set (0.01 sec)
```

Q6.

Q7.

Q8.

Q9.

```
[mysql> select rating, age from
    -> (select rating, avg(age) as age
    -> from sailors
    -> group by rating)
    -> as ans group by rating;
 rating | age
       7
             40
       1
             33
       8 | 29.5
          25.5
      10
       9
             40
       3
          44.5
6 rows in set (0.01 sec)
```

Q10.

```
mysql> select age from
    -> (select avg(age) as age from sailors
    -> group by rating
[    -> having count(*) >= 2) as ans;
+-----+
| age |
+-----+
| 40 |
| 29.5 |
| 25.5 |
| 44.5 |
+-----+
4 rows in set (0.00 sec)
```