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COMP-3421
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Assignment4

1.(a)Description: Find the Country of origin for each Inventory in one order which has order id = 311.

```
mysql> select R1.CountryName, R2.Quantity
    -> from Country R1, OrderLine R2, Inventory R3
    -> where R1.Country_id = R3.Country_id and R2.Invent_id =
R3.Invent_id and R2.Order_id = 311;
+-------------+----------+
| CountryName | Quantity |
+-------------+----------+
| Singapore   |       15 |
| Germany     |       15 |
| Thailand    |        8 |
| Singapore   |       12 |
| France      |       14 |
| Singapore   |       12 |
+-------------+----------+
6 rows in set (0.00 sec)
```

****

(b)Description: Find Employees who receive order and how many orders each Employee receives on '2013-03-11'.

```
mysql> select Emp_id, count(*)
    -> from Orders
    -> where OrderDate = '2013-03-11'
    -> group by Emp_id;
+--------+----------+
| Emp_id | count(*) |
+--------+----------+
|    155 |        1 |
|    279 |        1 |
|    420 |        1 |
|    477 |        1 |
|    490 |        1 |
|    741 |        1 |
|    752 |        1 |
+--------+----------+
7 rows in set (0.01 sec)
```

****

(c)Description: From Inventory Id 1 to 19, find the Inventory id which has been ordered less than 5 times.

```
mysql> select Invent_id, count(*)
    -> from OrderLine
    -> where Invent_id < 20
    -> group by Invent_id
    -> having count(*) < 5;
+-----------+----------+
| Invent_id | count(*) |
+-----------+----------+
|         1 |        2 |
|         3 |        1 |
|         6 |        1 |
|         9 |        4 |
|        12 |        1 |
|        14 |        2 |
|        15 |        1 |
|        16 |        1 |
|        17 |        1 |
|        18 |        2 |
|        19 |        3 |
+-----------+----------+
11 rows in set (0.00 sec)
```

****

2.(a)A Simple Insert:
(Add one more customer into database.)

```
mysql> select count(*) from Customer;
+----------+
| count(*) |
+----------+
|     3000 |
+----------+
1 row in set (0.00 sec)

mysql> select * from Customer where Cus_id = 3001;
Empty set (0.00 sec)

mysql> insert into Customer values(3001,'Vince3001');
Query OK, 1 row affected (0.00 sec)

mysql> select count(*) from Customer;
+----------+
| count(*) |
```

```
+----------+
|     3001 |
+----------+
1 row in set (0.00 sec)

mysql> select * from Customer where Cus_id = 3001;
+--------+-----------+
| Cus_id | Name      |
+--------+-----------+
|   3001 | Vince3001 |
+--------+-----------+
1 row in set (0.00 sec)
**************************************************
```

(b)A Simple Update:
(The customer wants to change an Inventory's quantity in his order which Order_id is 200.)

```
mysql> select * from OrderLine where Order_id = 200 and Invent_id =
1831;
+----------+-----------+----------+------------------+
| Order_id | Invent_id | Quantity | UnitSellingPrice |
+----------+-----------+----------+------------------+
|      200 |      1831 |       11 |                5 |
+----------+-----------+----------+------------------+
1 row in set (0.00 sec)

mysql> update OrderLine
    -> set Quantity = Quantity - 1
    -> where Order_id = 200 and Invent_id = 1831;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from OrderLine where Order_id = 200 and Invent_id =
1831;
+----------+-----------+----------+------------------+
| Order_id | Invent_id | Quantity | UnitSellingPrice |
+----------+-----------+----------+------------------+
|      200 |      1831 |       10 |                5 |
+----------+-----------+----------+------------------+
1 row in set (0.00 sec)
**************************************************
```

(c)An Update that updates several tuples at one:
(When company fires the Employee 'A' whose Emp_id is 300, the company has to transfer all orders that A received to the Employee 'B' whose

Emp_id is 311.)

```
mysql> select *
    -> from Orders
    -> where Emp_id = 300;
+----------+--------+--------+------------+
| Order_id | Cus_id | Emp_id | OrderDate  |
+----------+--------+--------+------------+
|      361 |   1578 |    300 | 2012-09-05 |
|      398 |   1316 |    300 | 2013-08-24 |
|     2425 |    826 |    300 | 2014-03-20 |
|     3111 |   1851 |    300 | 2012-12-24 |
|     3413 |     19 |    300 | 2013-03-09 |
|     4214 |     28 |    300 | 2013-02-05 |
+----------+--------+--------+------------+
6 rows in set (0.00 sec)

mysql> select *
    -> from Orders
    -> where Emp_id = 311;
+----------+--------+--------+------------+
| Order_id | Cus_id | Emp_id | OrderDate  |
+----------+--------+--------+------------+
|       52 |    740 |    311 | 2014-06-05 |
|      804 |   1435 |    311 | 2014-04-11 |
|     2552 |    408 |    311 | 2013-09-22 |
|     4015 |   2195 |    311 | 2013-11-01 |
|     4656 |    288 |    311 | 2012-04-04 |
+----------+--------+--------+------------+
5 rows in set (0.00 sec)

mysql> update Orders
    -> set Emp_id = 311
    -> where Emp_id = 300;
Query OK, 6 rows affected (0.01 sec)
Rows matched: 6  Changed: 6  Warnings: 0

mysql> select *
    -> from Orders
    -> where Emp_id = 300;
Empty set (0.00 sec)

mysql> select *
    -> from Orders
    -> where Emp_id = 311;
+----------+--------+--------+------------+
| Order_id | Cus_id | Emp_id | OrderDate  |
+----------+--------+--------+------------+
|       52 |    740 |    311 | 2014-06-05 |
|      361 |   1578 |    311 | 2012-09-05 |
```

```
|      398 |   1316 |    311 | 2013-08-24 |
|      804 |   1435 |    311 | 2014-04-11 |
|     2425 |    826 |    311 | 2014-03-20 |
|     2552 |    408 |    311 | 2013-09-22 |
|     3111 |   1851 |    311 | 2012-12-24 |
|     3413 |     19 |    311 | 2013-03-09 |
|     4015 |   2195 |    311 | 2013-11-01 |
|     4214 |     28 |    311 | 2013-02-05 |
|     4656 |    288 |    311 | 2012-04-04 |
+----------+--------+--------+------------+
11 rows in set (0.00 sec)
***************************************************
```