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Lab 5

Question 1:

Query:

```
select *  
  from LGBRAND  
  order by BRAND_TYPE;
```

Output:

BRAND_ID	BRAND_NAME	BRAND_TYPE
25	STUTTENFURST	CONTRACTOR
27	HOME COMFORT	CONTRACTOR
28	OLDE TYME QUALITY	CONTRACTOR
30	LONG HAUL	CONTRACTOR
35	LE MODE	PREMIUM
26	HOMESTEADER FINEST	PREMIUM
33	BINDER PRIME	PREMIUM
34	PRIME OF LIFE	VALUE
32	YOUR HOME HELPER	VALUE
31	VALU-MATTE	VALUE
29	BUSTERS	VALUE
24	REGAL HOME	VALUE
23	FORESTERS BEST	VALUE

Question 2:

Query:

```
select P_DESCRIPT as `Product Description` , P_PRICE as `Price`  
from PRODUCT  
      where P_QOH < 15;
```

Output:

Product Description	Price
Power painter, 15 psi., 3-nozzle	109.99
B&D jigsaw, 12-in. blade	109.92
B&D jigsaw, 8-in. blade	99.87
B&D cordless drill, 1/2-in.	38.95
Sledge hammer, 12 lb.	14.40
Hicut chain saw, 16 in.	256.99

### Question 3:

Query:

```
select P_CODE as `Product Code`, P_DESCRIPT as `Product
Description`, (P_PRICE * (1 - P_DISCOUNT)) as `Discounted Price`
from PRODUCT
      where P_PRICE > 100;
```

Output:

```
+-----+-----+-----+
| Product Code | Product Description          | Discounted Price |
+-----+-----+-----+
| 11QER/31     | Power painter, 15 psi., 3-nozzle |      109.9900 |
| 2232/QTY     | B&D jigsaw, 12-in. blade      |      104.4240 |
| 89-WRE-Q     | Hicut chain saw, 16 in.       |      244.1405 |
| WR3/TT3     | Steel matting, 4'x8'x1/6", .5" mesh |      107.9550 |
+-----+-----+-----+
```

### Question 4

Query:

```
select CUST_STATE as `State`, count(CUST_BALANCE) as `Number of
non zero balances`
      from LGCUSTOMER
      where
            CUST_BALANCE != 0
      group by CUST_STATE
      having
            count(CUST_CODE) > 100;
```

Output:

```
+-----+-----+
| State | Number of non zero balances |
+-----+-----+
| NY    |          104                |
| PA    |          118                |
+-----+-----+
```

Question 5:

Query:

```
select CUST_STATE as `State`, count(CUST_BALANCE) as `Number of non
zero balances`
  from LGCUSTOMER
  where
        CUST_BALANCE != 0
  group by CUST_STATE
  having
        count(CUST_CODE) > 100
  order by STATE desc;
```

Output:

State	Number of non zero balances
PA	118
NY	104

Question 6:

Query:

```
select CUST_STATE as `State`, count(CUST_BALANCE) as `Number of non
zero balances`
  from LGCUSTOMER
  where
        CUST_BALANCE != 0
  group by CUST_STATE
  having
        count(CUST_CODE) > 100
  order by count(CUST_CODE);
```

Output:

State	Number of non zero balances
NY	104
PA	118

Question 7:

Query:

```
select SUM(LINE_NUM) as `Number of Products purchased`, BRAND_TYPE as
`Brand`
  from LGCUSTOMER
  natural join LGINVOICE
  natural join LGLINE
  natural join LGPRODUCT
  natural join LGBRAND
  where
      CUST_STATE = "ME"
  group by BRAND_TYPE;
```

Output:

Number of Products purchased	Brand
249	CONTRACTOR
126	PREMIUM
130	VALUE

Question 8:

Query:

```
select SUM(LINE_NUM) as `Number of Products purchased`, BRAND_TYPE as
`Brand`, CUST_STATE as `State`
  from LGCUSTOMER
  natural join LGINVOICE
  natural join LGLINE
  natural join LGPRODUCT
  natural join LGBRAND
  group by BRAND_TYPE, CUST_STATE
  having SUM(LINE_NUM) < 10;
```

Output:

```
+-----+-----+-----+
| Number of Products purchased | Brand | State |
+-----+-----+-----+
|                               7 | VALUE | DE    |
+-----+-----+-----+
```

Question 9:

Query:

```
select
  MAX(EMP_HIREDATE) as `Hire date`,
  EMP_FNAME as `First Name`,
  EMP_LNAME as `Last Name`,
  DATEDIFF(CURRENT_DATE, MAX(EMP_HIREDATE)) as `Days since hire`
  from LGEMPLOYEE;
```

Output:

```
+-----+-----+-----+-----+
| Hire date | First Name | Last Name | Days since hire |
+-----+-----+-----+-----+
| 2017-12-15 | TAMARA    | MCDONALD | 1155 |
+-----+-----+-----+-----+
```