SQL Lab 1

Name: Stephen Oliver

1.0 Show all the information on our warehouses

Query

```
  GNU nano 2.2.6

use Cod2;
select *
from WAREHOUSE;
```

Result

```
mysql> source sql2-0.sql
Database changed
+-------------+----------------+----------------+-----------------+------------+
| WarehouseID | WarehouseCity  | WarehouseState | Manager         | SquareFeet |
+-------------+----------------+----------------+-----------------+------------+
|         100 | Atlanta        | GA             | Dave Jones      |     125000 |
|         200 | Chicago        | IL             | Lucille Smith   |     100000 |
|         300 | Bangor         | ME             | Bart Evans      |     150000 |
|         400 | Seattle        | WA             | Dale Rogers     |     130000 |
|         500 | San Francisco  | CA             | Grace Jefferson |     200000 |
+-------------+----------------+----------------+-----------------+------------+
5 rows in set (0.00 sec)

mysql>
```

1.1 What are the unique items (by description) in our inventory?

Query

```
199.193.232.244 - PuTTY
  GNU nano 2.2.6                                    File: sql_1-1.sql

SELECT SKU_Description FROM INVENTORY GROUP BY SKU_Description;
```

Result

```
mysql> source sql_1-1.sql
+----------------------------+
| SKU_Description            |
+----------------------------+
| Dive Mask, Med Clear       |
| Dive Mask, Small Clear     |
| Half-dome Tent             |
| Half-dome Tent Vestibule   |
| Light Fly Climbing Harness |
| Locking Carabiner, Oval    |
| Std. Scuba Tank, Magenta   |
| Std. Scuba Tank, Yellow    |
+----------------------------+
8 rows in set (0.00 sec)

mysql>
```

1.2 What is the Description and SKU of times (items?) in SKU_DATA bought by Nancy Meyers?

Query

```
199.193.232.244 - PuTTY
  GNU nano 2.2.6                                    File: sql_1-2.sql

SELECT SKU, SKU_Description FROM SKU_DATA
        WHERE Buyer = 'Nancy Meyers';
```

Result

```
mysql> source sql_1-2.sql
+--------+------------------------+
| SKU    | SKU_Description         |
+--------+------------------------+
| 101100 | Dive Mask, Small Clear |
| 101200 | Dive Mask, Med Clear   |
+--------+------------------------+
2 rows in set (0.00 sec)

mysql>
```

1.3 Give a list of the current orders (ORDER_ITEM) sorted by extended price (smallest to largest)

Query

```
199.193.232.244 - PuTTY

  GNU nano 2.2.6                              File: sql_1-3.sql

SELECT * FROM ORDER_ITEM
        ORDER BY ExtendedPrice;
```

Result

```
mysql> source sql_1-3.sql
+--------------+--------+----------+--------+---------------+
| OrderNumber  | SKU    | Quantity | Price  | ExtendedPrice |
+--------------+--------+----------+--------+---------------+
|         3000 | 101200 |        1 |  50.00 |         50.00 |
|         3000 | 101100 |        2 |  50.00 |        100.00 |
|         2000 | 101200 |        2 |  50.00 |        100.00 |
|         1000 | 202000 |        1 | 130.00 |        130.00 |
|         2000 | 101100 |        4 |  50.00 |        200.00 |
|         3000 | 100200 |        1 | 300.00 |        300.00 |
|         1000 | 201000 |        1 | 300.00 |        300.00 |
+--------------+--------+----------+--------+---------------+
7 rows in set (0.00 sec)

mysql>
```

1.4 Show the Order Number and extended price of current orders (ORDER_ITEM) sorted by extended price (largest to smallest)

Query

```
199.193.232.244 - PuTTY

  GNU nano 2.2.6                              File: sql_1-4.sql

SELECT OrderNumber, ExtendedPrice FROM ORDER_ITEM
        ORDER BY ExtendedPrice DESC;
```

Result

```
mysql> source sql_1-4.sql
+--------------+---------------+
| OrderNumber  | ExtendedPrice |
+--------------+---------------+
|         3000 |        300.00 |
|         1000 |        300.00 |
|         2000 |        200.00 |
|         1000 |        130.00 |
|         3000 |        100.00 |
|         2000 |        100.00 |
|         3000 |         50.00 |
+--------------+---------------+
7 rows in set (0.00 sec)

mysql>
```

1.5 Show the SKU, Order Number, and extended prices of all orders (ORDER_ITEM). Sort the information by SKU (smallest to largest) with the extended price for each SKU(largest to smallest)

Query

```
199.193.232.244 - PuTTY

GNU nano 2.2.6                                    File: sql_1-5.sql

SELECT SKU, OrderNumber, ExtendedPrice FROM ORDER_ITEM
        ORDER BY SKU, ExtendedPrice DESC;
```

Result

```
mysql> source sql_1-5.sql
+---------+-------------+---------------+
| SKU     | OrderNumber | ExtendedPrice |
+---------+-------------+---------------+
| 100200  |        3000 |        300.00 |
| 101100  |        2000 |        200.00 |
| 101100  |        3000 |        100.00 |
| 101200  |        2000 |        100.00 |
| 101200  |        3000 |         50.00 |
| 201000  |        1000 |        300.00 |
| 202000  |        1000 |        130.00 |
+---------+-------------+---------------+
7 rows in set (0.00 sec)

mysql>
```

1.6 Show the SKU Description and Department of items not in Water Sports (SKU_DATA).

Query

```
199.193.232.244 - PuTTY

GNU nano 2.2.6                                    File: sql_1-6.sql

SELECT SKU_Description, Department FROM SKU_DATA
        WHERE Department != 'Water Sports';
```

Result

```
mysql> source sql_1-6.sql
+---------------------------+------------+
| SKU_Description           | Department |
+---------------------------+------------+
| Half-dome Tent            | Camping    |
| Half-dome Tent Vestibule  | Camping    |
| Light Fly Climbing Harness | Climbing   |
| Locking Carabiner, Oval   | Climbing   |
+---------------------------+------------+
4 rows in set (0.00 sec)

mysql>
```

1.7 Show the SKU and SKU Description for all items (Inventory table) in Atlanta or Chicago (Warehouse 100 and 200) with quantity on hand larger than 200. Order the result by SKU. Use an OR operator for the warehouse numbers.

Query

```
199.193.232.244 - PuTTY
  GNU nano 2.2.6                                    File: sql_1-7.sql

SELECT SKU, SKU_Description FROM INVENTORY
         WHERE WarehouseID = 100 OR
                   WarehouseID = 200;
```

Result

```
mysql> source sql_1-7.sql
+--------+------------------------------+
| SKU    | SKU_Description               |
+--------+------------------------------+
| 100100 | Std. Scuba Tank, Yellow       |
| 100100 | Std. Scuba Tank, Yellow       |
| 100200 | Std. Scuba Tank, Magenta      |
| 100200 | Std. Scuba Tank, Magenta      |
| 101100 | Dive Mask, Small Clear        |
| 101100 | Dive Mask, Small Clear        |
| 101200 | Dive Mask, Med Clear          |
| 101200 | Dive Mask, Med Clear          |
| 201000 | Half-dome Tent                |
| 201000 | Half-dome Tent                |
| 202000 | Half-dome Tent Vestibule      |
| 202000 | Half-dome Tent Vestibule      |
| 301000 | Light Fly Climbing Harness    |
| 301000 | Light Fly Climbing Harness    |
| 302000 | Locking Carabiner, Oval       |
| 302000 | Locking Carabiner, Oval       |
+--------+------------------------------+
16 rows in set (0.00 sec)

mysql>
```

1.8 Show the SKU and SKU Description for all items in Atlanta or Chicago (Warehouse 100 and 200) with quantity on hand larger than 200. Order the result by SKU. Use an IN operator for warehouse numbers..

Query

```
199.193.232.244 - PuTTY

  GNU nano 2.2.6                              File: sql_1-8.sql

SELECT SKU, SKU_Description FROM INVENTORY
        WHERE WarehouseID IN (100, 200)
        ORDER BY SKU;
```

Result

```
mysql> source sql_1-8.sql
+--------+------------------------------+
| SKU    | SKU_Description               |
+--------+------------------------------+
| 100100 | Std. Scuba Tank, Yellow       |
| 100100 | Std. Scuba Tank, Yellow       |
| 100200 | Std. Scuba Tank, Magenta      |
| 100200 | Std. Scuba Tank, Magenta      |
| 101100 | Dive Mask, Small Clear        |
| 101100 | Dive Mask, Small Clear        |
| 101200 | Dive Mask, Med Clear          |
| 101200 | Dive Mask, Med Clear          |
| 201000 | Half-dome Tent                |
| 201000 | Half-dome Tent                |
| 202000 | Half-dome Tent Vestibule      |
| 202000 | Half-dome Tent Vestibule      |
| 301000 | Light Fly Climbing Harness    |
| 301000 | Light Fly Climbing Harness    |
| 302000 | Locking Carabiner, Oval       |
| 302000 | Locking Carabiner, Oval       |
+--------+------------------------------+
16 rows in set (0.00 sec)

mysql>
```

1.9 Show the SKU and SKU Description for all items located in other warehouses than Atlanta or Chicago (Warehouse 100 and 200) with quantity on hand between 200 and 1000. Order the result by SKU. Use an IN operator for warehouse numbers..
Query

```
199.193.232.244 - PuTTY

GNU nano 2.2.6                               File: sql_1-9.sql

SELECT SKU, SKU_Description FROM INVENTORY
       WHERE WarehouseID NOT IN (100, 200)
       AND QuantityOnHand > 200
       AND QuantityOnHand < 1000
       ORDER BY SKU;
```

Result

```
mysql> source sql_1-9.sql
+--------+---------------------------+
| SKU    | SKU_Description            |
+--------+---------------------------+
| 100200 | Std. Scuba Tank, Magenta   |
| 101100 | Dive Mask, Small Clear     |
| 101100 | Dive Mask, Small Clear     |
| 101200 | Dive Mask, Med Clear       |
| 101200 | Dive Mask, Med Clear       |
| 201000 | Half-dome Tent             |
| 302000 | Locking Carabiner, Oval    |
+--------+---------------------------+
7 rows in set (0.00 sec)

mysql>
```

1.10 Our manufacturer in Ontario has had a recall on all of their products. All of our products from that manufacturer has the number '2' as the fourth digit in the SKU. List the order number, SKU, and quantity for all items that must be recalled.
Query

```
199.193.232.244 - PuTTY

GNU nano 2.2.6                               File: sql_1-10.sql

SELECT OrderNumber, SKU, Quantity  FROM ORDER_ITEM
       WHERE SKU LIKE '___2___';
```

Result

```
mysql> source sql_1-10.sql
+-------------+--------+----------+
| OrderNumber | SKU    | Quantity |
+-------------+--------+----------+
|        1000 | 202000 |        1 |
+-------------+--------+----------+
1 row in set (0.00 sec)

mysql>
```