Jacob Christiansen - CSCI 3287 - Homework 3
Worked with Willie Chew and Brian Jackman

## Part One: Code

```sql
use classicmodels;

-- 1
select* from offices order by city;

-- 2
select employeeNumber, lastName, firstName, extension from employees where officeCode=4;

-- 3
select productCode, productName, productVendor, quantityInStock, productLine from products where
quantityInStock>100 and quantityInStock<1000;

-- 4
select productCode, productName, productVendor, buyPrice, MSRP from products
        where MSRP=(select min(MSRP) from products);

-- 5
select (MSRP-buyPrice) as 'profit', productName from products
        where (MSRP-buyPrice)=(select max(MSRP-buyPrice) from products);

-- 6
select test.Customers, test.country from
        (select (count(customerNumber)) as 'Customers', country from customers group by country order
by (count(customerNumber))desc)test
    where test.Customers>10;

-- 7
select Prod.productcode, Prod.productName, Ords.OrderCount from products Prod,
        (select productcode, count(productCode) as OrderCount from orderdetails group by
productCode) Ords
        order by Ords.OrderCount desc limit 1;

-- 8
select employeeNumber, concat(firstName,' ',lastName) as 'name' from employees  where
reportsTo=1002 or reportsTo=1088;

-- 9
select * from employees where jobTitle = 'President';

-- 10
select productName, productLine from products where productLine='Classic Cars' and left(productName,
3)='197';
```

```sql
-- 11
select date_format(orderDate, '%M') as Month,
        count(date_format(orderDate, '%M')) as Count from orders
        group by Month
        order by Count desc;


-- 12
select firstName, lastName from employees where jobTitle='Sales Rep' and employeeNumber not in
        (select distinct salesRepEmployeeNumber as empWithCus from customers where
salesRepEmployeeNumber is not null);


-- 13
Select customerName from customers where country = 'Germany'
and customerNumber not in (select customerNumber from orders);


-- 14
select Cus.CustomerName, sum(Det.QuantityOrdered) as totalQuantity from customers Cus
        join orders Ord join orderDetails Det on Cus.CustomerNumber=Ord.CustomerNumber and
Ord.OrderNumber = Det.OrderNumber
        group by Cus.CustomerName having totalQuantity > 1700;


-- 15
create table TopCustomers(
        CustomerNumber int not null,
    ContactDate date not null,
    OrderTotal decimal(9,2) not null,
    constraint TopCustomer_PK primary key (CustomerNumber));


-- 16
insert into TopCustomers
    select customerNumber, curdate(), totalValue from (
        select O.customerNumber as customerNUmber, sum(D.orderTotal) as totalValue
        from orders O,
        (select sum(priceEach * quantityOrdered) as orderTotal, orderNumber from orderdetails group by
orderNumber) D
        where O.orderNumber = D.orderNumber group by customerNumber
    ) T where totalValue > 140000;


-- 17
select * from TopCustomers order by orderTotal desc;


-- 18
alter table TopCustomers
    add column orderCount int;


-- 19
update TopCustomers
```

```
    set orderCount = Floor(Rand()* 18);
```

-- 20
```
select * from TopCustomers order by orderCount desc;
```

-- 21
```
drop table TopCustomers;
```

## Part Two: Answer Set
(In order of problems, skipping problems with no outputs)

| officeCode | city | phone | addressLine1 | addressLine2 | state | country | postalCode | territory |
|---|---|---|---|---|---|---|---|---|
| 2 | Boston | +1 215 837 0825 | 1550 Court Place | Suite 102 | MA | USA | 02107 | NA |
| 7 | London | +44 20 7877 2041 | 25 Old Broad Street | Level 7 | NULL | UK | EC2N 1HN | EMEA |
| 3 | NYC | +1 212 555 3000 | 523 East 53rd Street | apt. 5A | NY | USA | 10022 | NA |
| 4 | Paris | +33 14 723 4404 | 43 Rue Jouffroy D'abbans | NULL | NULL | France | 75017 | EMEA |
| 1 | San Francisco | +1 650 219 4782 | 100 Market Street | Suite 300 | CA | USA | 94080 | NA |
| 6 | Sydney | +61 2 9264 2451 | 5-11 Wentworth Avenue | Floor #2 | NULL | Australia | NSW 2010 | APAC |
| 5 | Tokyo | +81 33 224 5000 | 4-1 Kioicho | NULL | Chiyoda-Ku | Japan | 102-8578 | Japan |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

| employeeNumber | lastName | firstName | extension |
|---|---|---|---|
| 1102 | Bondur | Gerard | x5408 |
| 1337 | Bondur | Loui | x6493 |
| 1370 | Hernandez | Gerard | x2028 |
| 1401 | Castillo | Pamela | x2759 |
| 1702 | Gerard | Martin | x2312 |
| NULL | NULL | NULL | NULL |

| productCode | productName | productVendor | quantityInStock | productLine |
|---|---|---|---|---|
| S18_2248 | 1911 Ford Town Car | Motor City Art Classics | 540 | Vintage Cars |
| S18_2581 | P-51-D Mustang | Gearbox Collectibles | 992 | Planes |
| S18_2795 | 1928 Mercedes-Benz SSK | Gearbox Collectibles | 548 | Vintage Cars |
| S32_1374 | 1997 BMW F650 ST | Exoto Designs | 178 | Motorcycles |
| S32_3522 | 1996 Peterbilt 379 Stake Bed with Outrigger | Red Start Diecast | 814 | Trucks and Buses |
| S32_4289 | 1928 Ford Phaeton Deluxe | Highway 66 Mini Classics | 136 | Vintage Cars |
| S50_4713 | 2002 Yamaha YZR M1 | Autoart Studio Design | 600 | Motorcycles |
| S700_1938 | The Mayflower | Studio M Art Models | 737 | Ships |
| S700_3167 | F/A 18 Hornet 1/72 | Motor City Art Classics | 551 | Planes |
| S72_3212 | Pont Yacht | Unimax Art Galleries | 414 | Ships |
| NULL | NULL | NULL | NULL | NULL |

| | productCode | productName | productVendor | buyPrice | MSRP |
|---|---|---|---|---|---|
| ▶ | S24_1937 | 1939 Chevrolet Deluxe Coupe | Motor City Art Classics | 22.57 | 33.19 |
| ✱ | NULL | NULL | NULL | NULL | NULL |

| | profit | productName |
|---|---|---|
| ▶ | 115.72 | 1952 Alpine Renault 1300 |

| | Customers | country |
|---|---|---|
| ▶ | 36 | USA |
| | 13 | Germany |
| | 12 | France |

| | productcode | productName | OrderCount |
|---|---|---|---|
| ▶ | S50_1341 | 1930 Buick Marquette Phaeton | 53 |

| | employeeNumber | name |
|---|---|---|
| ▶ | 1056 | Mary Patterson |
| | 1076 | Jeff Firrelli |
| | 1611 | Andy Fixter |
| | 1612 | Peter Marsh |
| | 1619 | Tom King |

| | employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |
|---|---|---|---|---|---|---|---|---|
| ▶ | 1002 | Murphy | Diane | x5800 | dmurphy@classicmodelcars.com | 1 | NULL | President |
| ⁕ | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

| | productName | productLine |
|---|---|---|
| ▶ | 1972 Alfa Romeo GTA | Classic Cars |
| | 1970 Plymouth Hemi Cuda | Classic Cars |
| | 1976 Ford Gran Torino | Classic Cars |
| | 1970 Triumph Spitfire | Classic Cars |
| | 1970 Chevy Chevelle SS 454 | Classic Cars |
| | 1970 Dodge Coronet | Classic Cars |
| | 1971 Alpine Renault 1600s | Classic Cars |

| | Month | Count |
|---|---|---|
| ▶ | November | 63 |
| | October | 31 |
| | April | 29 |
| | May | 29 |
| | March | 27 |
| | February | 26 |
| | January | 25 |
| | December | 22 |
| | September | 20 |
| | June | 19 |
| | July | 18 |
| | August | 17 |

| firstName | lastName |
|-----------|----------|
| Tom | King |
| Yoshimi | Kato |

| customerName |
|--------------|
| Natürlich Autos |
| Messner Shopping Network |
| Franken Gifts, Co |
| Der Hund Imports |
| Cramer Spezialitäten, Ltd |
| Kommission Auto |
| Stuttgart Collectable Exchange |
| Feuer Online Stores, Inc |
| Warburg Exchange |
| Mit Vergnügen & Co. |

| CustomerName | totalQuantity |
|--------------|---------------|
| Australian Collectors, Co. | 1926 |
| La Rochelle Gifts | 1832 |
| Mini Gifts Distributors Ltd. | 6366 |
| Euro+ Shopping Channel | 9327 |
| Muscle Machine Inc | 1775 |
| AV Stores, Co. | 1778 |

| CustomerNumber | ContactDate | OrderTotal |
|----------------|-------------|------------|
| 141 | 2019-10-13 | 820689.54 |
| 124 | 2019-10-13 | 591827.34 |
| 114 | 2019-10-13 | 180585.07 |
| 151 | 2019-10-13 | 177913.95 |
| 119 | 2019-10-13 | 158573.12 |
| 148 | 2019-10-13 | 156251.03 |
| 323 | 2019-10-13 | 154622.08 |
| 131 | 2019-10-13 | 149085.15 |
| 187 | 2019-10-13 | 148410.09 |
| 450 | 2019-10-13 | 143536.27 |
| NULL | NULL | NULL |

| CustomerNumber | ContactDate | OrderTotal | orderCount |
|----------------|-------------|------------|------------|
| 151 | 2019-10-13 | 177913.95 | 12 |
| 131 | 2019-10-13 | 149085.15 | 11 |
| 450 | 2019-10-13 | 143536.27 | 11 |
| 124 | 2019-10-13 | 591827.34 | 9 |
| 141 | 2019-10-13 | 820689.54 | 8 |
| 148 | 2019-10-13 | 156251.03 | 7 |
| 187 | 2019-10-13 | 148410.09 | 5 |
| 323 | 2019-10-13 | 154622.08 | 5 |
| 114 | 2019-10-13 | 180585.07 | 3 |
| 119 | 2019-10-13 | 158573.12 | 0 |
| NULL | NULL | NULL | NULL |