Name: Daniel Thommana SQL ASSGN 6

1. How many products in each product line?

2. What is the minimum payment received?

3. List all payments greater than twice the average payment.

4. What is the average percentage markup of the MSRP on buyPrice?

```
mysql> select round(avg((MSRP-buyPrice)/buyPrice)*100,2) as Average from Products;
+-----+
| Average |
+-----+
| 88.70 |
+-----+
1 row in set (0.00 sec)
```

5. How many distinct products does ClassicModels sell?

6. Report the name and city of customers who don't have sales representatives?

```
mysql> select customerName, city from Customers where salesRepEmployeeNumber is null order by city;
 Warburg Exchange
                                  Aachen
 Schuyler Imports
                                    Amsterdam
                                  | Berlin
| Brandenburg
| Cork
 Der Hund Imports
Cramer Spezialitäten, Ltd
 Asian Treasures, Inc.
 Natürlich Autos
                                    Cunewalde
 Messner Shopping Network
                                    Frankfurt
                                    Fribourg
 BG&E Collectables
  SAR Distributors, Co
                                    Hatfield
  Raanan Stores, Inc
                                  Herzlia
  Feuer Online Stores, Inc
                                    Leipzig
  Porto Imports Co.
                                    Lisboa
  Lisboa Souveniers, Inc
                                    Lisboa
  ANG Resellers
                                    Madrid
  Anton Designs, Ltd.
                                    Madrid
 Mit Vergnügen & Co.
                                    Mannheim
  Franken Gifts, Co
                                    München
  Kommission Auto
                                    Münster
 Kremlin Collectables, Co. | Saint Petersburg
Asian Shopping Network, Co | Singapore
  Stuttgart Collectable Exchange | Stuttgart
                                  Warszawa
 Havel & Zbyszek Co
22 rows in set (0.00 sec)
```

7. What are the names of executives with VP or Manager in their title?

8. Which orders have a value greater than \$5,000?

```
10416
                   35362.26
       10417
                  28574.90
       10418
                  23627.44
       10419
                  52420.07
       10420
                  42251.51
       10421
                   7639.10
       10422
                   5849.44
                   8597.73
       10423
       10424
                  29310.30
       10425
                  41623.44
303 rows in set (0.00 sec)
```

9. List the value of 'On Hold' orders.

```
mysql> select 0.orderNumber,sum(CD.quantityOrdered * priceEach) as total_value,O.status from Orders O join OrderDetails OD on O.orderNumber=CD.orderNumber group by orderNumber having status='On Hold';

| orderNumber | total_value | status |

| 10334 | 23014.17 | On Hold |

| 10401 | 43525.04 | On Hold |

| 10407 | 52229.55 | On Hold |

| 10414 | 50806.85 | On Hold |

| 4 rows in set (0.00 sec)
```

10. Report the number of orders 'On Hold' for each customer.

11. List products sold by order date.

12. List the order dates in descending order for orders for the 1940 Ford Pickup Truck.

```
#ysol's select 0. orderDate _P.productName from Orders 0 join OrderDetails 00 on 0.orderNumber join Products P on P.productCode=00.productCode where P.productName="1940 Ford Pickup Truck" order by 0.orderDate desc;

| orderDate | productName | |
| 2005-09-31 | 1940 Ford Pickup Truck |
| 2006-09-31 | 1940 Ford Pickup Truck |
| 2008-09-31 | 1940 Ford Pickup Truck |
```

13. List the names of customers and their corresponding order number where a particular order from that customer has a value greater than \$25,000?

14. Are there any products that appear on all orders?

mysql> select productCode from OrderDetails where orderNumber =ALL(select orderNumber from Orders); Empty set (0.02 sec)

15. List the names of products sold at less than 80% of the MSRP

```
ysql> select P.productName,P.productCode,OD.priceEach,P.MSRP from Products P join OrderDetails OD on P.productCode=OD.productCode where priceEach < (MSRP * .8);
                                                                                                      | productCode | priceEach | MSRP
 1996 Moto Guzzi 1100i
                                                                                                          S10 2016
                                                                                                                                                   95.15
                                                                                                                                                                     118.94
                                                                                                         S18_1129
S18_1342
                                                                                                                                                 113.23
82.19
                                                                                                                                                                     141.54
102.74
 1937 Lincoln Berline
 1965 Aston Martin DB5
1965 Aston Martin DB5
                                                                                                         S18_1589
S18_1589
                                                                                                                                                   99.55
99.55
                                                                                                                                                                     124.44
124.44
                                                                                                                                                                     157.69
157.69
60.54
84.48
84.48
                                                                                                         S18_1662
S18_1662
S18_2248
                                                                                                                                                 126.15
126.15
48.43
 1980s Black Hawk Helicopter
1980s Black Hawk Helicopter
 1911 Ford Town Car
P-51-D Mustang
P-51-D Mustang
                                                                                                         S18_2581
S18_2581
                                                                                                                                                   67.58
67.58
 P-51-D Mustang
1992 Ferrari 360 Spider red
Collectable Wooden Train
1976 Ford Gran Torino
1932 Alfa Romeo 8C2300 Spider Sport
                                                                                                         S18_3232
S18_3232
                                                                                                                                                 135.47
135.47
                                                                                                                                                                     169.34
169.34
                                                                                                         $18_3232
$18_3232
$18_3259
                                                                                                                                                 135.47
135.47
135.47
80.67
                                                                                                                                                                      169.34
169.34
                                                                                                                                                                      100.84
                                                                                                          S18_3482
S18_4409
                                                                                                                                                 117.59
73.62
                                                                                                                                                                     146.99
92.03
 1940s Ford truck
1940s Ford truck
1940s Ford truck
1940s Ford truck
1939 Chevrolet Deluxe Coupe
1939 Chevrolet Deluxe Coupe
                                                                                                         $18_4600
$18_4600
$18_4600
$18_4600
$24_1937
$24_1937
                                                                                                                                                   96.86
96.86
                                                                                                                                                                     121.08
121.08
                                                                                                                                                   96.86
26.55
26.55
                                                                                                                                                                      121.08
                                                                                                                                                                       33.19
33.19
                                                                                                         $24_2011
$24_2300
$24_2300
$24_2887
$24_2887
 18th century schooner
1962 Volkswagen Microbus
                                                                                                                                                 98.31
102.23
                                                                                                                                                                     122.89
127.79
                                                                                                                                                                     127.79
117.44
117.44
 1962 Volkswagen Microbus
1952 Citroen-15CV
                                                                                                                                                 102.23
93.95
                                                                                                                                                 93.95
48.98
112.34
 1952 Citroen-15CV
 1971 Alpine Renault 1600s
1956 Porsche 356A Coupe
                                                                                                         S24_3371
S24_3856
                                                                                                                                                                     61.23
140.43
 1956 Porsche 350A Coupe
1956 Porsche 356A Coupe
1956 Porsche 356A Coupe
Corsair F4U ( Bird Cage)
1936 Mercedes Benz 500k Roadster
1936 Mercedes Benz 500k Roadster
                                                                                                         $24_3856
$24_3856
$24_3856
$24_3949
$24_3969
$24_3969
                                                                                                                                                                     140.43
140.43
140.43
68.24
41.03
41.03
                                                                                                                                                 112.34
112.34
                                                                                                                                                   54.59
                                                                                                                                                   32.82
32.82
 1936 Mercedes Benz 500k Roadster
1997 BMW F650 ST
                                                                                                         S24_3969
S32_1374
                                                                                                                                                   32.82
79.91
                                                                                                                                                                       41.03
 1997 kBW Hob0 SI
1950's Chicago Surface Lines Streetcar
1996 Peterbilt 379 Stake Bed with Outrigger
1930 Buick Marquette Phaeton
1962 City of Detroit Streetcar
American Airlines: B767-300
                                                                                                                                                                      62.14
64.64
43.64
58.58
91.34
91.34
72.28
                                                                                                          S32_3207
S32_3522
S50_1341
                                                                                                                                                   49.71
51.71
34.91
                                                                                                                                                   46.86
73.07
                                                                                                           S700 1691
 American Airlines: B767-300
The USS Constitution Ship
American Airlines: MD-11S
                                                                                                          S700_1691
S700_2610
                                                                                                                                                   73.07
57.82
                                                                                                           S700 4002
                                                                                                                                                                        74.03
```

16. Compute the commission for each sales representative, assuming the commission is 5% of the value of an order. Sort by employee last name and first name.

17. What is the difference in days between the most recent and oldest order date in the Orders file?

```
mysql> Select datediff(max(orderDate),min(orderDate)) as Date_Difference from Orders;
+-----+
| Date_Difference |
+-----+
| 876 |
+-----+
1 row in set (0.00 sec)
```

18. Compute the ratio of payments for each customer for 2003 versus 2004.

19. Find the products sold in 2003 but not 2004.

empty set (0.01 sec)

mysql> select productName from Products where productName in (select distinct P.productName from Products P join OrderDetails 00 on P.productCode=00.productCode join Orders 0 on O.orderNumber=00.orderNumber
where date_format(orderDate,"%V")= 2003) and productName not in (select distinct P.productName from Products P join OrderDetails 00 on P.productCode=00.productCode join Orders 0 on O.orderNumber=00.orderNumber
where date_format(orderDate,"%V")= 2004);
Empty set (0.01 sec)

mysql>

20. Find the customers without payments in 2003.

you's select district customer/mane from Customer/mane;

Accordings presented; 2017-2009) order by customer/mane;

According and according according to the customer/mane;

According a select district dissoner

According a select district dissoner

According a select dissoner

Acco

SAR Distributors, Co
Scandinavian Gift Ideas
Schuyler Imports
Stuttgart Collectable Exchange
Tekni Collectables Inc.
The Sharp Gifts Marchouse
Tokyo Collectables, Ltd
Vida Sport, Ltd
Warburg Exchange