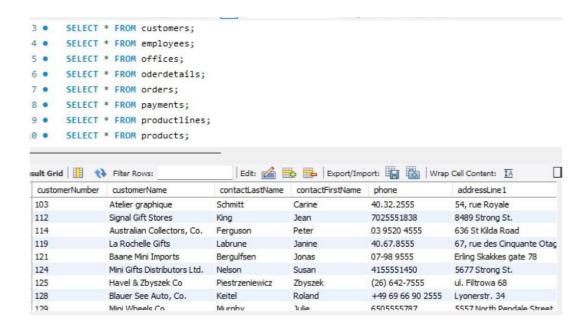
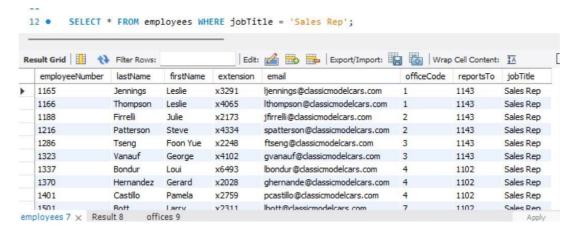


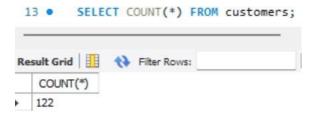
a) By using the following queries, we can have an overview of the data in the database, where the output shows the result of customers table.



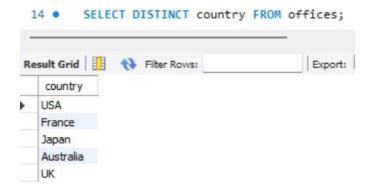
b) The following query is done to filter the employees of sales representatives only.



c) The following query done to count the rows in customers table.

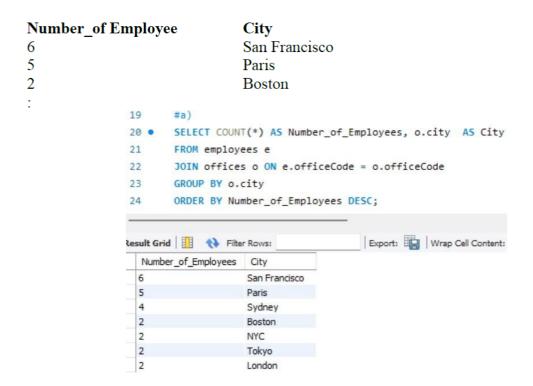


d) The following query is done to see distinct countries in the office table to see how many countries office located at.



The basic queries shown above a) till d) can be done for any other table in the database to have basic understanding of each table respectively.

a) Count the Number of employees that work in the same city in descending order, output example as follows.

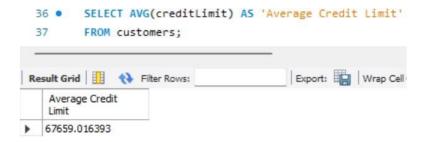


b) Create a view called *staff\_office1* that have list of staff in office code 1, output example as follows.

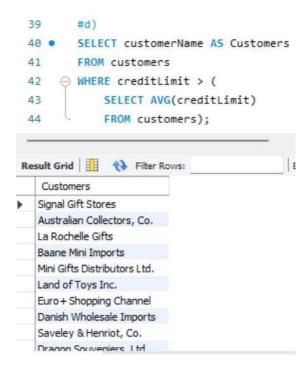
| Name            | City          | Address                       | Country |
|-----------------|---------------|-------------------------------|---------|
| Murphy, Diane   | San Francisco | 100, Market Street, Suite 300 | USA     |
| Patterson, Mary | San Francisco | 100, Market Street, Suite 300 | USA     |
| Firrel, Jeff    | San Francisco | 100, Market Street, Suite 300 | USA     |



c) Find the average credit limit of customer.



d) List the customer's name that have credit limit more than average credit limit.



e) List of customer name served by the sales representative as the following format.

| Customer_Name<br>Mini Gift Distibu       |  | Contact<br>xxxx  | Salesperson_nam<br>Leslie | <b>Position</b> Sales Rep |  |  |
|--|--|------------------|---------------------------|---------------------------|--|--|
| Technics Stores Inc DieCast Collectables |  | XXXXX<br>XXXXX   | Leslie<br>Julie           | Sales Rep<br>Sales rep    |  |  |
| 46 #e)                                   |  |                  |                           |                           |  |  |
| 47 • SELECT c.custo                      | 7 • SELECT c.customerName AS Customer_Name, c.phone AS Contact, e.firstName AS Salesperson_Name, |                  |                           |                           |  |  |
| 48 e.jobTitle AS                         | Position   |                  |                           |                           |  |  |
| 49 FROM customers                        |  |                  |                           |                           |  |  |
| 50 JOIN employees                        | e ON c.sale  | esRepEmploveeNum | ber = e.employeeNumber;   |                           |  |  |
| 2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The second second second second  |                  |                           |                           |  |  |
| esult Grid                               | ws:  | Export:          | Wrap Cell Content: 1A     | Г                         |  |  |
| Customer_Name                            | Contact  | Salesperson_Name | Position                  |                           |  |  |
| The Sharp Gifts Warehouse                | 4085553659   | Leslie           | Sales Rep                 |                           |  |  |
| Signal Collectibles Ltd.                 | 4155554312   | Leslie           | Sales Rep                 |                           |  |  |
| Signal Gift Stores                       | 7025551838   | Leslie           | Sales Rep                 |                           |  |  |
| Toys4GrownUps.com                        | 6265557265   | Leslie           | Sales Rep Sales Rep       |                           |  |  |
| Boards & Toys Co.                        | 3105552373   | Leslie           | Sales Rep                 |                           |  |  |
| Collectable Mini Designs Co.             | 7605558146   | Leslie           | Sales Rep                 |                           |  |  |
| Men 'R' US Retailers, Ltd.               | 2155554369   | Leslie           | Sales Rep                 |                           |  |  |
| West Coast Collectables Co.              | 3105553722   | Leslie           | Sales Rep                 |                           |  |  |
| Cambridge Collectables Co.               | 617555555  | Julie            | Sales Rep                 |                           |  |  |
| Online Mini Collectables                 | 6175557555   | Tulia.           | Sales Den                 |                           |  |  |

f) Count the number of customers served by each the sales representative in the company.

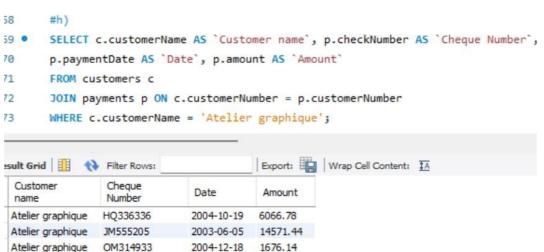


g) List the sales person that serve more than 10 customers.

```
59
        #g)
60 •
        SELECT e.firstName AS Salesperson_Name, COUNT(c.customerNumber) AS Customer_Count
        FROM employees e
61
       JOIN customers c ON e.employeeNumber = c.salesRepEmployeeNumber
       WHERE e.jobTitle LIKE '%Sales Rep'
 63
       GROUP BY e.firstName
 64
 65
       HAVING COUNT(c.customerNumber) > 10;
Export: Wrap Cell Content: IA
  Salesperson_Name
                 Customer_Count
Leslie
                 12
```

h) Find the payment made by customer named Atelier graphique and output is as follows.

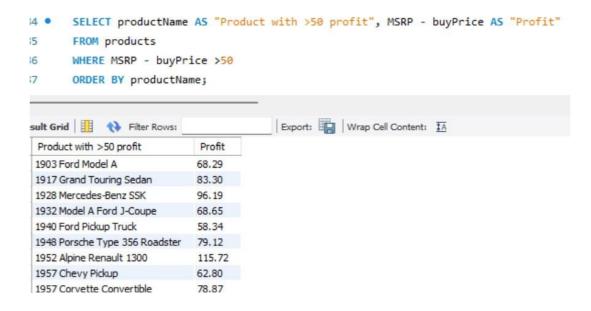
| Customer name     | Cheque Number | Date       | Amount  |
|-------------------|---------------|------------|---------|
| Atelier graphique | HQ336336      | 2004-10-19 | 6066.78 |
| Atelier graphique | JM555205      | 2003-06-05 | 1471.44 |
| Atelier graphique | OM314933      | 2004-12-18 | 1676.14 |



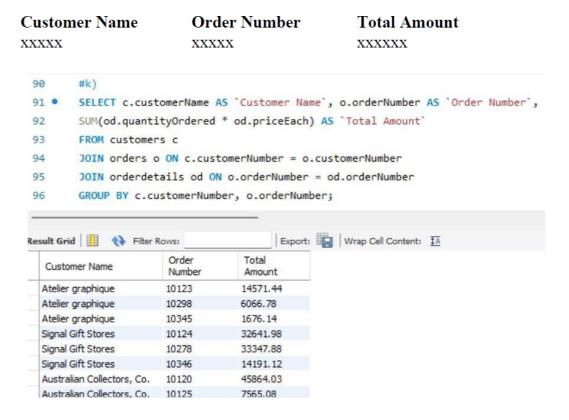
i) Find the monthly quantity order by each product according to the following format. (hint: use function month(date), year date in SQL),

| Product_Name<br>1917 Grand Touring Sedan |   |   | <b>Quantity_Order</b><br>97             |                    | Month_sale       | Year_sale<br>2003       |
|--|---|---|---|--------------------|------------------|-------------------------|
| . 10                                     | 022 Model A Ford I Cou  | pe 79   | 70                                      |                    | 1                | 2003                    |
| 1932 Model A Ford J-Coupe                |   | pe /9   | :<br>xxxxxx                             |                    | 1<br>:<br>12     | 2003                    |
|  | :<br>XXXX   |   |   |                    |                  |                         |
| X  |   |   |   |                    |                  |                         |
| X  | XXX   | XXXXX   | XXXXXX                                  |                    | 1                | 2004                    |
| :  |   |   |   |                    |                  |                         |
| X  | XXXXX   | XXXXX   | XXXXXXX                                 |                    | 12               | 2004                    |
| 75<br>76 •<br>77<br>78<br>79<br>30<br>31 | #i)  SELECT p.productName AS F  EXTRACT(MONTH FROM o.order  FROM orderdetails od  JOIN orders o ON od.order  JOIN products p ON od.pro  GROUP BY p.productName, M | erDate) AS Mont Number = o.orc oductCode = p.p onth_sale, Yea | th_sale, EX<br>derNumber<br>productCode | KTRACT <b>(YEA</b> | AR FROM o.orderD | - A 100 C 10 Sept. C 20 |
|  | uct_Name  | Quantity_Order  | Month_sale                              |                    | =                |                         |
| -  | Grand Touring Sedan   | 30  | 1                                       | 2003               | -                |                         |
| " DESCRIPTION                            | Ford Town Car   | 50  | 1                                       | 2003               |                  |                         |
| 1932                                     | Alfa Romeo 8C2300 Spider Sport  | 22  | 1                                       | 2003               |                  |                         |
| 1936                                     | Mercedes Benz 500k Roadster   | 49  | 1                                       | 2003               |                  |                         |
| 1932                                     | Model A Ford J-Coupe  | 25  | 1                                       | 2003               |                  |                         |
| 1928                                     | Mercedes-Benz SSK   | 26  | 1                                       | 2003               |                  |                         |
| 1939                                     | Chevrolet Deluxe Coupe  | 45  | 1                                       | 2003               |                  |                         |
| 1938                                     | Cadillac V-16 Presidential Limousine  | 46  | 1                                       | 2003               |                  |                         |
| 1937                                     | Lincoln Berline   | 39  | 1                                       | 2003               |                  |                         |

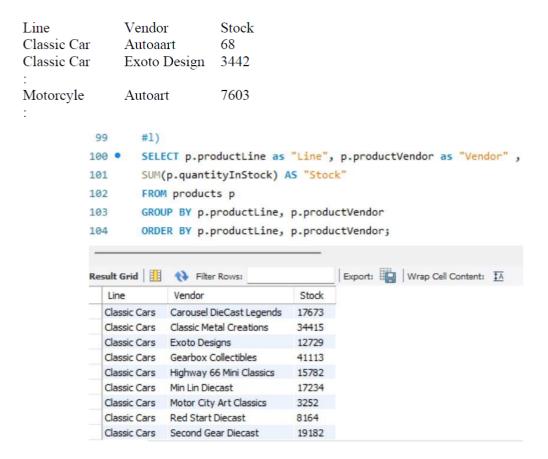
j) Assuming attribute **MSRP** in **products table** is the sales price of each product. List the product that have profit >50.



k) The management want to send the invoice with total amount (calculate based quantiy order \* price) for each order to customer as follows.



1) Find the subtotal of quantity in stock for each product line according to product vendor.



m) Rank the Product buyPrice according to the vendor.

