# Assignment 1

## Submission

***Your submission will be a single text-based SQL file (.sql) with appropriate header and commenting. Please ensure your file runs when the entire file is executed in SQL Developer.***

Create a new Worksheet in SQL Developer. Save the file as A1\_ID1#\_ID2#\_---.sql.  
Only one submission per group please.

Late penalty 10 % for each day will apply if you are late.

You will use the same script that you use for labs.

## Submission Checklist Use the following checklist, to make sure you have completed the assignment successfully.

|  |  |  |
| --- | --- | --- |
| **Tasks to be completed** | **Yes** | **No** |
| You have read the assignment group submission and completion policies and all instructions provided in the assignment document and have not missed a word. |  |  |
| Student information and the assignment information have been added to the header of the submission. (Same as the template provided in the assignment documents) |  |  |
| All questions are answered in a text file (a SQL worksheet) and are saved as a ***.sql*** file. |  |  |
| Comments are included. (questions definition or any additional explanation) |  |  |
| All SQL statements are executed successfully without errors. (Use "Run Script" to execute all statements together.) |  |  |
| The result of your SQL statements matches the given results in the assignment document. |  |  |

## Assignment Milestones

The following timeline is just for students to know what questions can be answered each week. Follow the timeline to make sure you complete the assignment before the due date. You do not submit anything until all questions in the assignment are answered in a single *.sql* file and one single file (*.sql*) will be submitted before the due date. Remember, each group submits only one file.

## Group Work

This assignment is to be completed in groups of 3 or 2. Please only one submission per group. The comment header MUST have all students’ name and student number.

It is suggested that you **ALL do it individually** and then meet to compare answers. Those not doing the work may be barred from your group resulting in a zero and incomplete on the assignment.

## Assignment Marking Scheme

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Weight** | **Question** | **Weight** |
| 1 | 5% | 6 | 10% |
| 2 | 5% | 7 | 10% |
| 3 | 10% | 8 | 15% |
| 4 | 10% | 9 | 10% |
| 5 | 10% | 10 | 15% |

## VERY IMPORTANT:

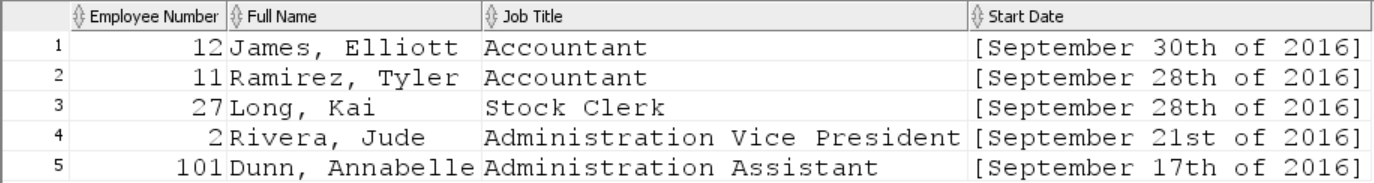
Being part of a group is the same as being a part of a team for these assignments. When you submitted your work as part of a group you are saying that:

* You understood what was submitted and that you fully participated with ALL the group members.
* It does not mean letting others do your work for you.
* It does not mean watching the others do the work.
* For your full participation, you get a mark equal to all the others in the group.
* If on the test, which is very much like the assignment, you cannot answer it strongly indicates that you didn’t participate and understand the assignment but depended on others for the mark you received. That is very much like submitting their work and claiming it is your work.

## Tasks

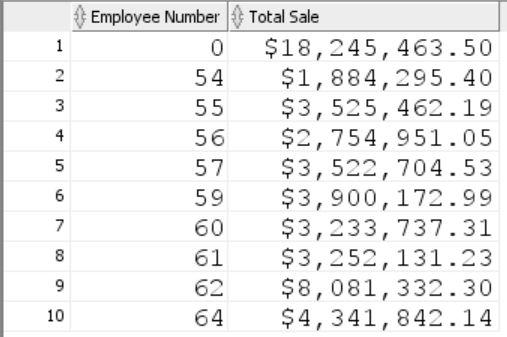
Each question, the columns’ title and the format of the output result must match the sample result given in that question.

1. Display the employee number, full employee name, job title, and hire date of all employees hired in September with the most recently hired employees displayed first.



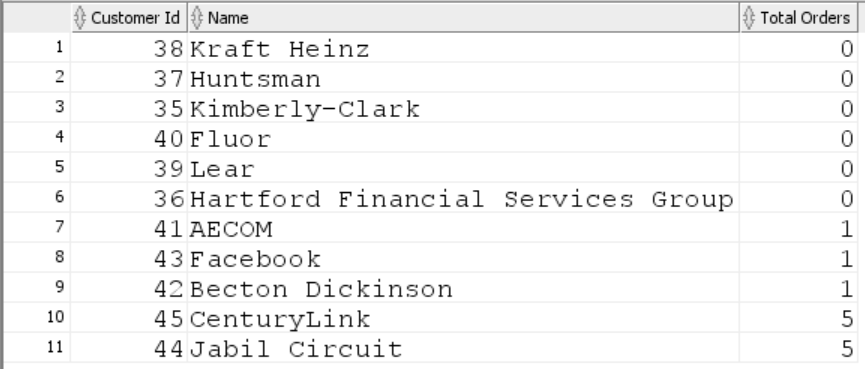
1. The company wants to see the total sale amount per sales person (salesman) for all orders. Assume that online orders do not have any sales representative. For online orders (orders with no salesman ID), consider the salesman ID as 0. Display the salesman ID and the total sale amount for the employee for each employee.

Sort the result according to employee number.

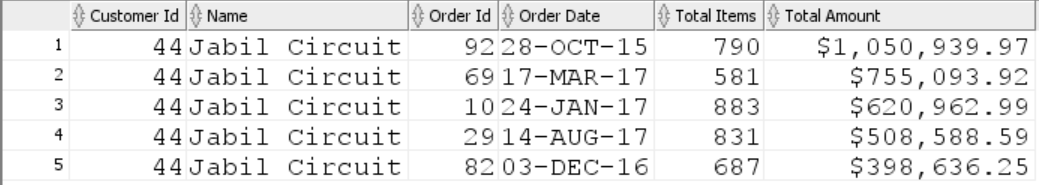


1. Display customer Id, customer name and total number of orders for customers that the value of their customer Id is in values from 35 to 45. Include the customers with no orders in your report if their customer Id falls in the range 35 and 45.

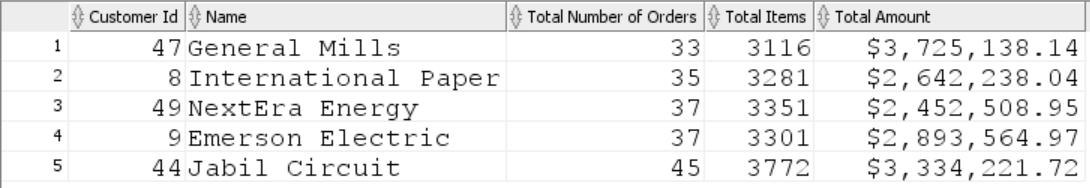
Sort the result by the value of total orders.



1. Display customer Id, customer name, and the order id and the order date of all orders for customer whose ID is 44.
   1. Show also the total quantity and the total amount of each customer’s order.
   2. Sort the result from the highest to lowest total order amount.



1. Display customer Id, name, total number of orders, the total number of items ordered, and the total order amount for customers who have more than 30 orders. Sort the result based on the total number of orders.

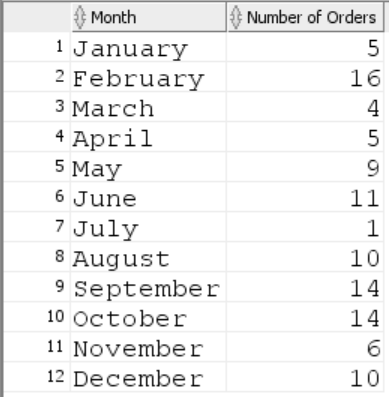


1. Display Warehouse Id, warehouse name, product category Id, product category name, and the lowest product standard cost for this combination.

* In your result, include the rows that the lowest standard cost is less then $200.
* Also, include the rows that the lowest cost is more than $500.
* Sort the output according to Warehouse Id, warehouse name and then product category Id, and product category name.



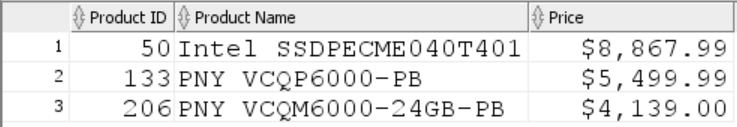
1. Display the total number of orders per month. Sort the result from January to December.



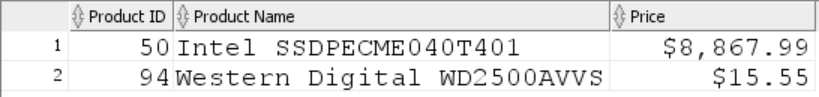
1. Display product Id, product name for products that their list price is more than any highest product standard cost per warehouse outside Americas regions.

(You need to find the highest standard cost for each warehouse that is located outside the Americas regions. Then you need to return all products that their list price is higher than any highest standard cost of those warehouses.)

Sort the result according to list price.

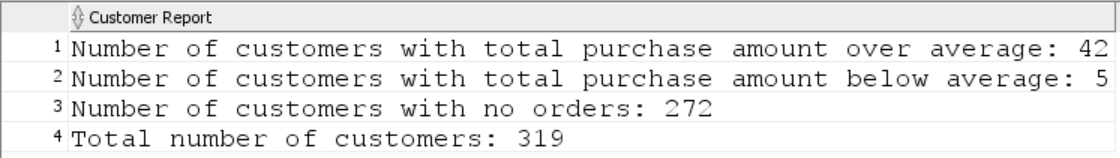


1. Write a SQL statement to display the most expensive and the cheapest product (list price). Display product ID, product name, and the list price.



1. Write a SQL query to display the number of customers with total order amount over the average amount of all products, the number of customers with total order amount under the average amount of all products, number of customer with no orders, and the total number of customers.

See the format of the following result.



## Example Submission

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
-- Student1 Name: Your Name Student1 ID: #########  
-- Student2 Name: Your Name Student2 ID: #########  
-- Student3 Name: Your Name Student3 ID: #########  
-- Date: The date of assignment completion  
-- Purpose: Assignment 1 - DBS311  
-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
  
-- Question 1 – write a brief note about what the question is asking  
-- Q1 SOLUTION --  
  
SELECT \* FROM TABLE1;  
  
-- Question 2 –  
– write a brief note about what the question is asking  
-- Q2 SOLUTION --  
  
SELECT \* FROM TABLE2;