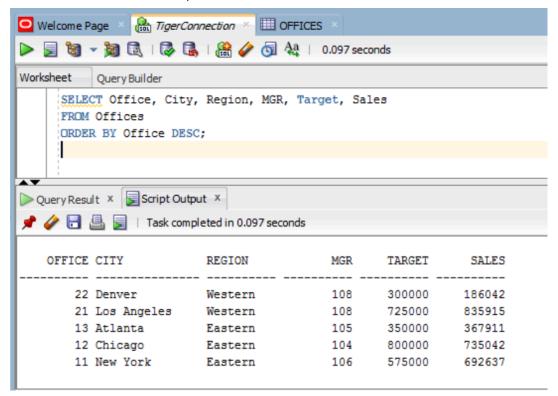
CS443 - Assignment 2

1) Write a select statement to list all the columns from the Offices table. 'Select *' is not allowed. Return the list in DESC Office order. SELECT Office, City, Region, MGR, Target, Sales
FROM Offices

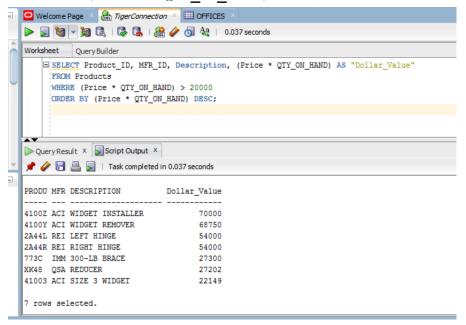
ORDER BY Office DESC;



2) List the product ID, mfr ID, Name (its description), and dollar value of quantity on hand (price * quantity) of the products whose dollar value is greater than 20000. Return the list in descending order by their dollar value.

SELECT Product_ID, MFR_ID, Description, (Price * QTY_ON_HAND) AS "Dollar_Value"
FROM Products

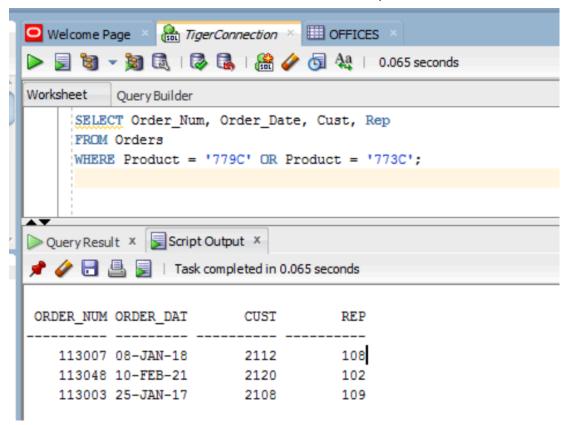
WHERE (Price * QTY_ON_HAND) > 20000 ORDER BY (Price * QTY ON HAND) DESC;



3) List the Order Number, Order Date, Customer Number, and Sales Rep Number for orders for part '779C' or '773C'. (Use a compound search condition - OR.)

SELECT Order_Num, Order_Date, Cust, Rep
FROM Orders

WHERE Product = '779C' OR Product = '773C';

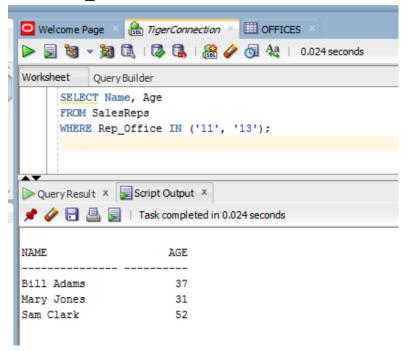


4) List the Name and Age of all Sales Reps in the following offices: 11; 13. (Use the set membership test - IN.)

SELECT Name, Age

FROM SalesReps

WHERE Rep Office IN ('11', '13');

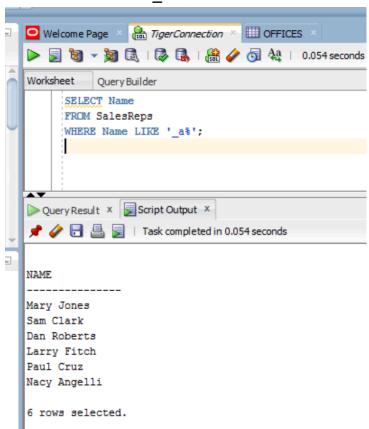


5) List the names of all Sales Reps who have the letter 'a' (this is lower case a) as the second character of their name.

SELECT Name

FROM SalesReps

WHERE Name LIKE ' a%';

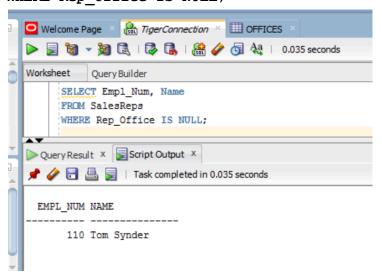


6) Return the Sales Rep ID and Name of any Sales Rep not assigned to an office yet.

SELECT Empl Num, Name

FROM SalesReps

WHERE Rep Office IS NULL;

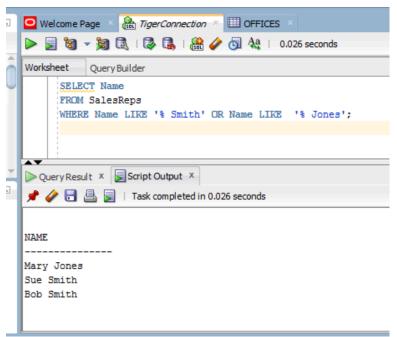


7) Show all the sales rep names with last name "Smith" or "Jones".

SELECT Name

FROM SalesReps

WHERE Name LIKE '% Smith' OR Name LIKE '% Jones';

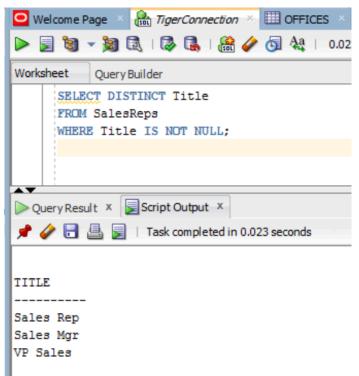


8) List different titles in the sales reps table. Only list each title once and unknown titles should be ignored. Duplicate rows are not allowed.

SELECT DISTINCT Title

FROM SalesReps

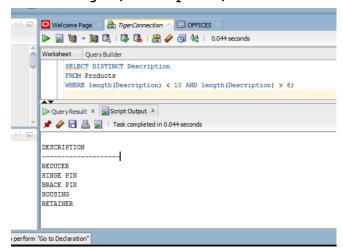
WHERE Title IS NOT NULL;



9) List the description of the products which are more than 6 character and less than 10 character long. No duplicate row is allowed. You can use the build in function length() to do this. For example, length(name) return the number of characters for attribute called "name". SELECT DISTINCT Description

FROM Products

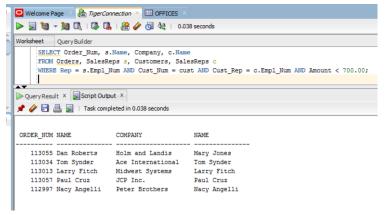
WHERE length (Description) < 10 AND length (Description) > 6;



10) For all order Amount less than \$700, list the order num with the name of the rep who placed the order and the name of the customer who made the order and the name of the rep for that customer

SELECT Order Num, s.Name, Company, c.Name

SELECT Order_Num, s.Name, Company, c.Name
FROM Orders, SalesReps s, Customers, SalesReps c
WHERE Rep = s.Empl_Num AND Cust_Num = cust AND Cust_Rep = c.Empl_Num AND Amount < 700.00;</pre>



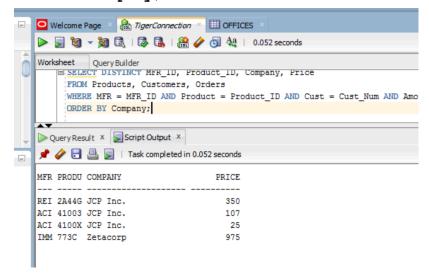
11) List the Mfr Id, the Product Id, Company and PRICE of all products bought by customers where customer number is one of (2111,2112,2105,2119) and where the amount of the order < \$10,000. Order the results by ascending Company. Duplicate row are not allowed.

SELECT DISTINCT MFR_ID, Product_ID, Company, Price

FROM Products, Customers, Orders

WHERE MFR = MFR_ID AND Product = Product_ID AND Cust = Cust_Num AND Amount < 10000.00 AND Cust Num IN ('2111', '2112', '2105', '2119')

ORDER BY Company;

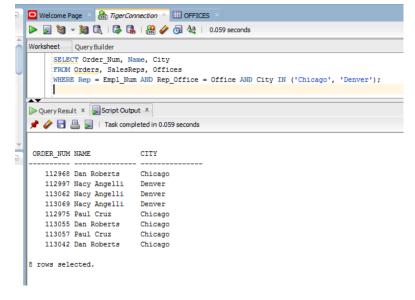


12) List all orders number, the name of the rep who took the order, the city where the rep has his/her office. Print the employee whose office is in either Chicago or Denver;

SELECT Order Num, Name, City

FROM Orders, SalesReps, Offices

WHERE Rep = Empl_Num AND Rep_Office = Office AND City IN ('Chicago', 'Denver');

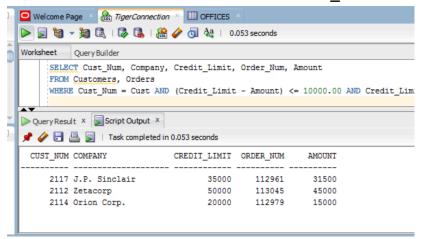


13) List all customers (Customer number, Company, and Credit Limit) and orders (Order Number, Amount) where the Amount is within \$10,000 of the Credit Limit. Therefore:

- Credit_limit should be greater than zero and
- Amount should be greater than zero and
- Amount should be less than credit_limit and
- Credit_limit Amount <=\$10000

SELECT Cust_Num, Company, Credit_Limit, Order_Num, Amount
FROM Customers, Orders

WHERE Cust_Num = Cust AND (Credit_Limit - Amount) <= 10000.00 AND Credit_Limit > 0.00 AND Amount > 0.00 AND Amount < Credit Limit;

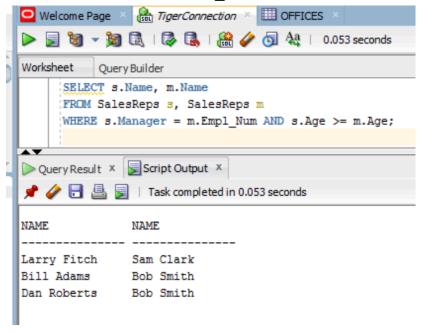


14) List all salesreps names and their managers' names where the salesrep is at least as old as the manager. Duplicate rows are not allowed.

SELECT s.Name, m.Name

FROM SalesReps s, SalesReps m

WHERE s.Manager = m.Empl Num AND s.Age >= m.Age;

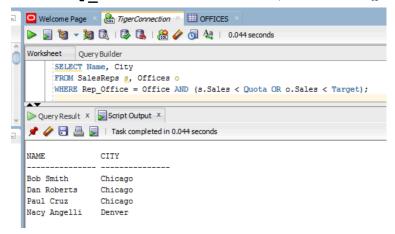


15) List all salesreps (Name) and the City they work in where either the sales of the salesrep < Quota or the sales for the office is < Target.

SELECT Name, City

FROM SalesReps s, Offices o

WHERE Rep Office = Office AND (s.Sales < Quota OR o.Sales < Target);

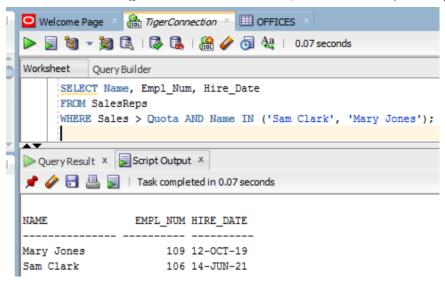


- 16) List the name, ID, and hire date of the salesreps where the following two conditions hold:
 - a) The salesreps sales should be greater than the quota and
 - b) The rep should be either "Sam Clark", or "Mary Jones."

SELECT Name, Empl Num, Hire Date

FROM SalesReps

WHERE Sales > Quota AND Name IN ('Sam Clark', 'Mary Jones');

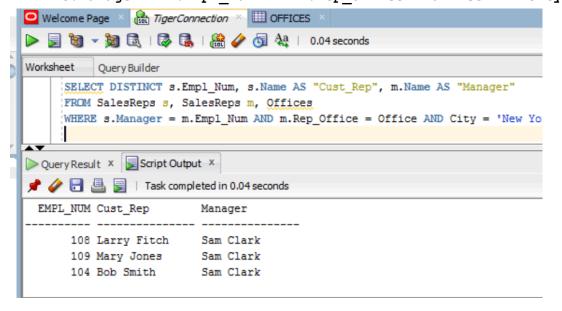


17) List all orders (Order Number) over \$7,000 showing the company placing the order, the Customer Rep assign to the company, the Office id and the city, and the rep who took the order where such that the Customer Rep's is not the rep who took the order.

SELECT DISTINCT Order_Num, Company, Cust_Rep, Office, City, Rep
FROM Orders, Customers, SalesReps, Offices
WHERE amount > 7000.00 AND Cust = Cust_Num AND Cust_Rep = Empl_Num AND Rep_Office =
Office AND Rep != Cust Rep;

18) List all customer reps (their name and their id) and their managers name in which the manager is based in New York. Use appropriate column header.

SELECT DISTINCT s.Empl_Num, s.Name AS "Cust_Rep", m.Name AS "Manager"
FROM SalesReps s, SalesReps m, Offices
WHERE s.Manager = m.Empl Num AND m.Rep Office = Office AND City = 'New York';

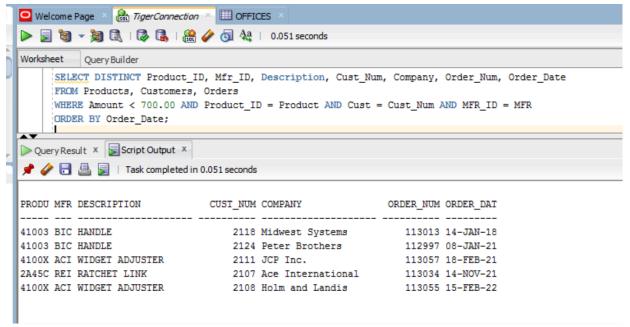


19) List all products (ProductId, MFR_Id, and Description), customers (CustNum, Company) who have bought that product, and orders (Order Number, and Order Date) where the order < \$700. Sort the rows by the OrderDate. Duplicate rows is not allowed.

SELECT DISTINCT Product_ID, Mfr_ID, Description, Cust_Num, Company, Order_Num,
Order Date

FROM Products, Customers, Orders

WHERE Amount < 700.00 AND Product_ID = Product AND Cust = Cust_Num AND MFR_ID = MFR ORDER BY Order_Date;



20) List the name of the salesreps and the name of their managers only if the manager has taken care of some orders.

SELECT DISTINCT s.Name AS "SalesRep", m.Name AS "Manager"

FROM SalesReps s, SalesReps m, Orders

WHERE s.Manager = m.Empl_Num AND Rep = m.Empl_Num;

