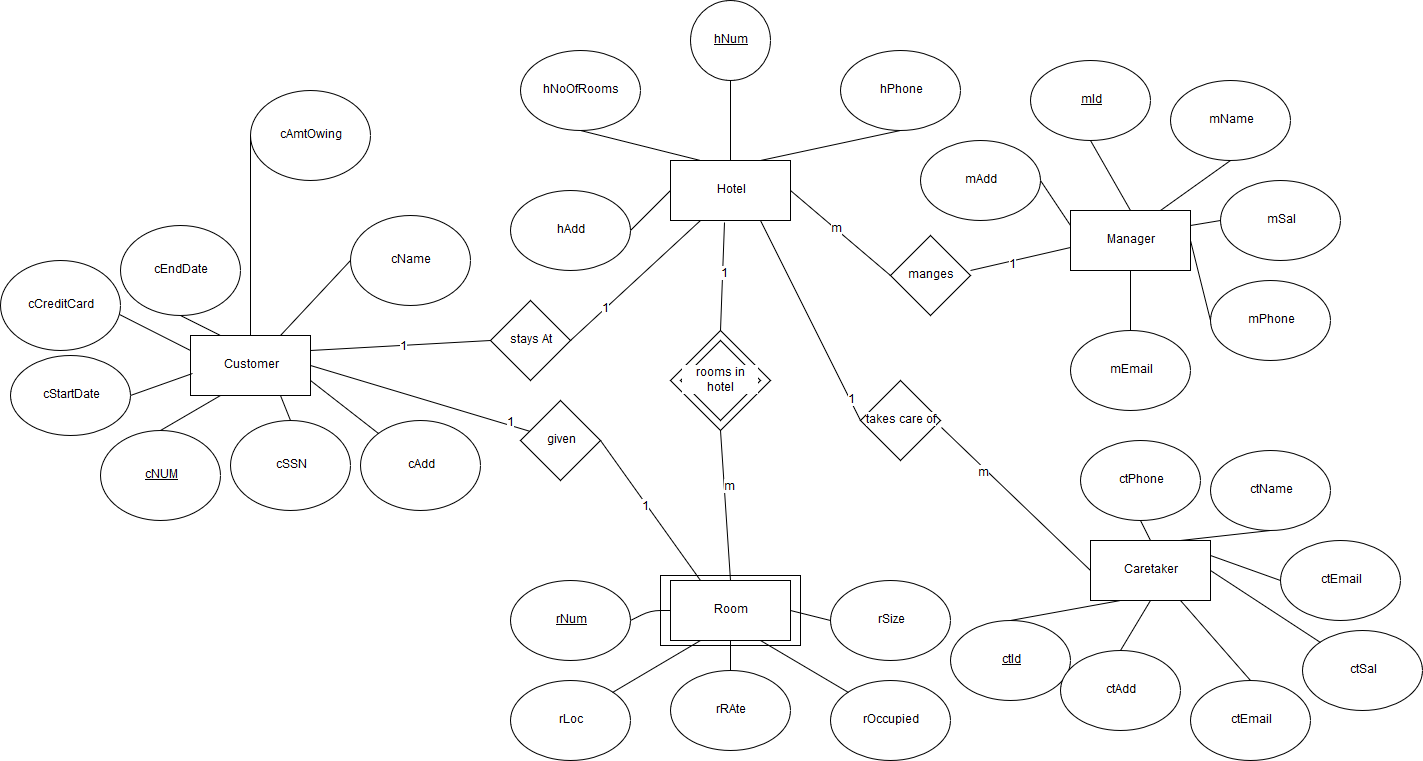
Erik Leung

CS 443 Assignment 2

Question 1



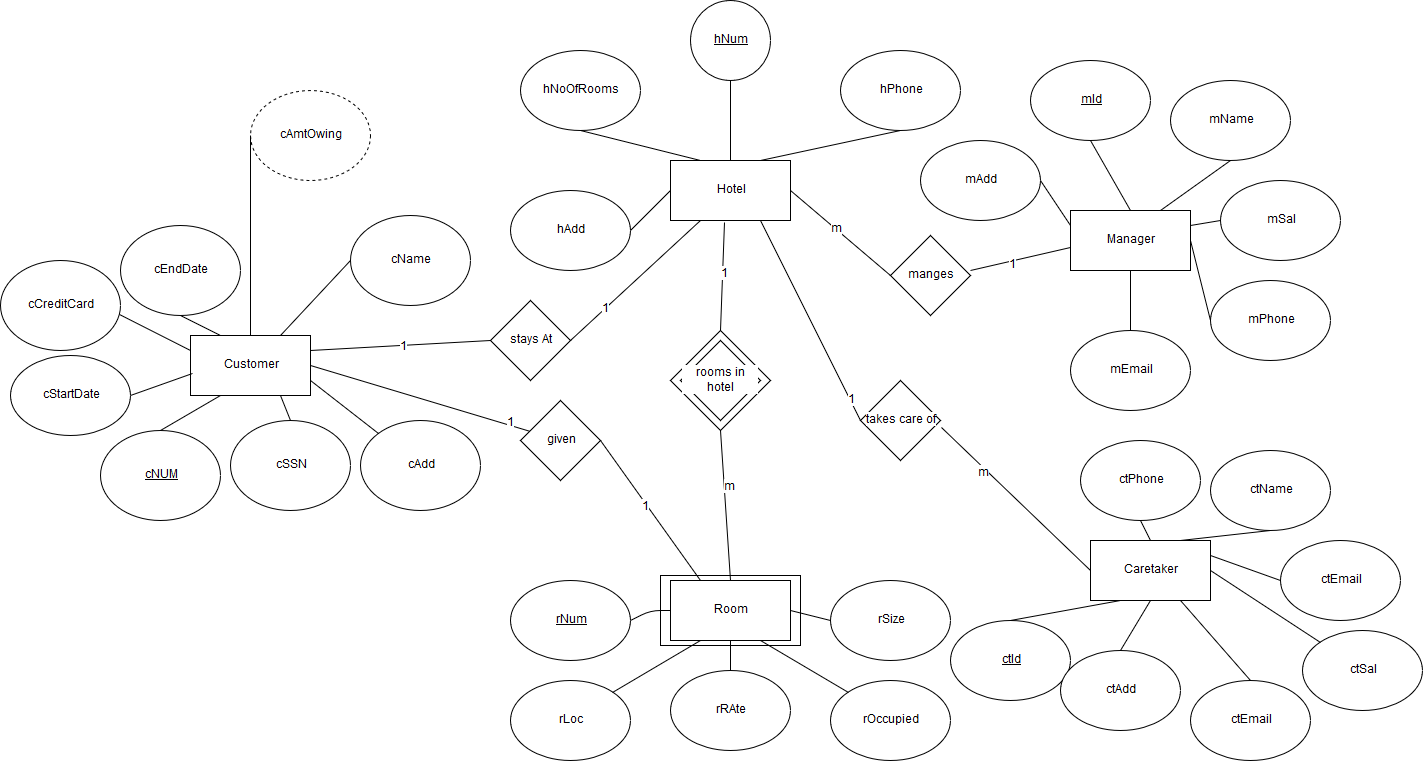
1. Hotel (hNum, hNoOfRooms, hPhone, hAdd, mId\*)

Room (rNum, hNum\*, rRate, rSize, rOccupied, rLoc)

Manager (mId, mName, mAdd, mPhone, mEmail ,mSal)

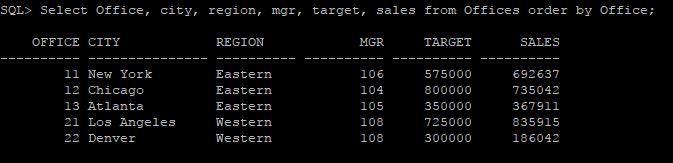
Caretaker (ctId, ctName, ctAdd, ctPhone, ctEmail, ctSal, hNum\*)

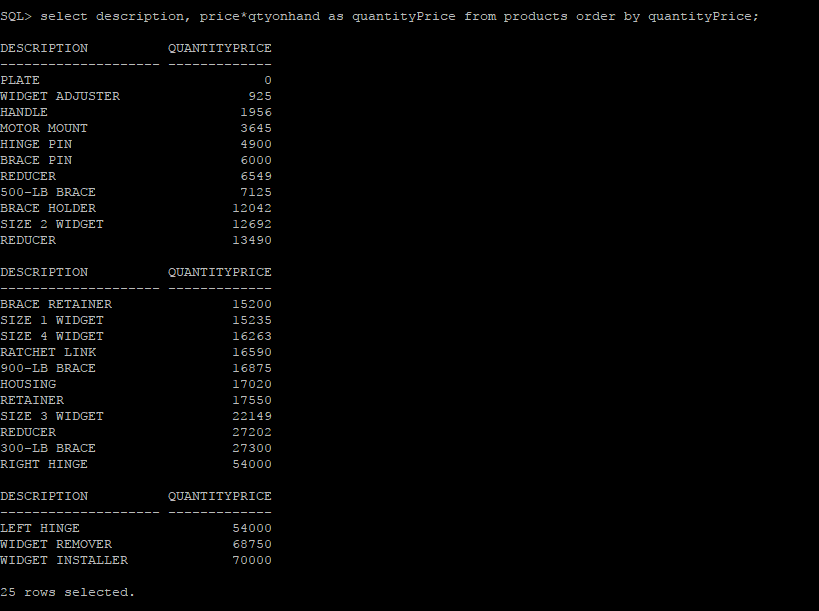
Customer (cNum, cSSN, cCreditCard, cAdd, cStartDate, cEndDate rNum\*, hNum\*) cAmtowing can be derived from the rRate, cStartDate, and cEndDate.



2.

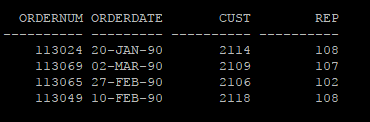
1) Write a select statement to list all the columns from the Offices table. 'Select \*' is not allowed. Return the list in Office order.



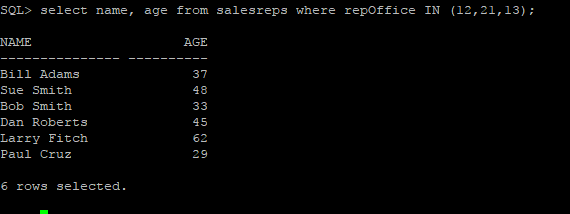
2) List the Product Name (its description), and dollar value of quantity on hand (price \* quantity) . Return the list in descending order by value 

3) New: List the Order Number, Order Date, Customer Number and Sales Rep Number for orders for part 'XK47' or '775C'. (Use a compound search condition - OR.)

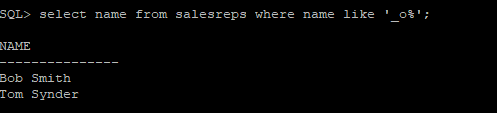
select orderNum, orderDate, cust, rep from orders where (product = 'XK47') or (product ='775C');



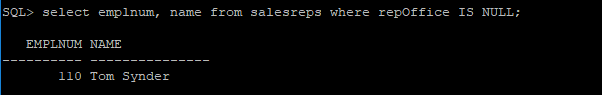
4) List the Name and Age for all Sales Reps in the following offices: 12; 21; 13. (Use the set membership test - IN.)



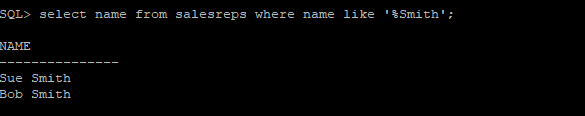
5) List the names of all Sales Reps who have the letter 'o' (this is lower case o) as the second character of their name



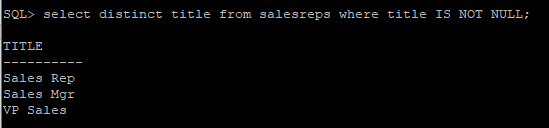
6) Return the Sales Rep ID and Name of any Sales Rep not assigned to an office yet.



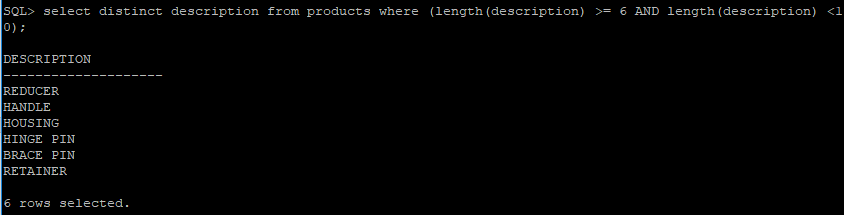
7) Show all the sales rep names with last name “Smith”.



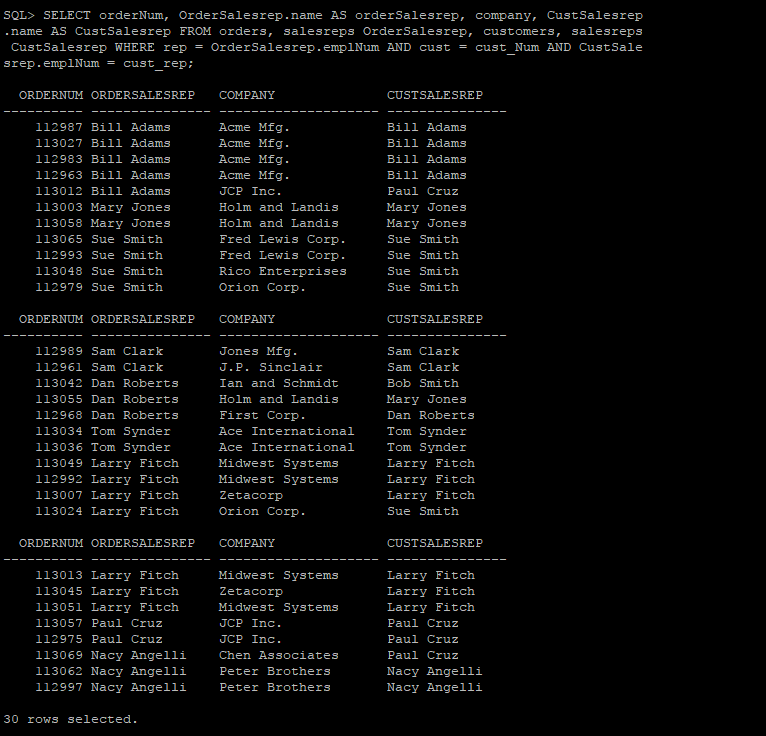
8) List different titles in the sales reps table. Only list each title once and unknown titles should be ignored.



9) List the description of the products which are at least 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”.

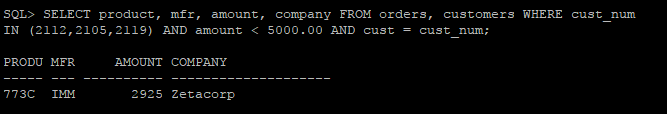


10) List the the order nums with the name of the rep who placed the order and the name of the customer who made the order and the name of the rep for that customer.

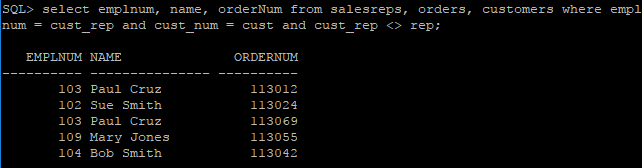


3.

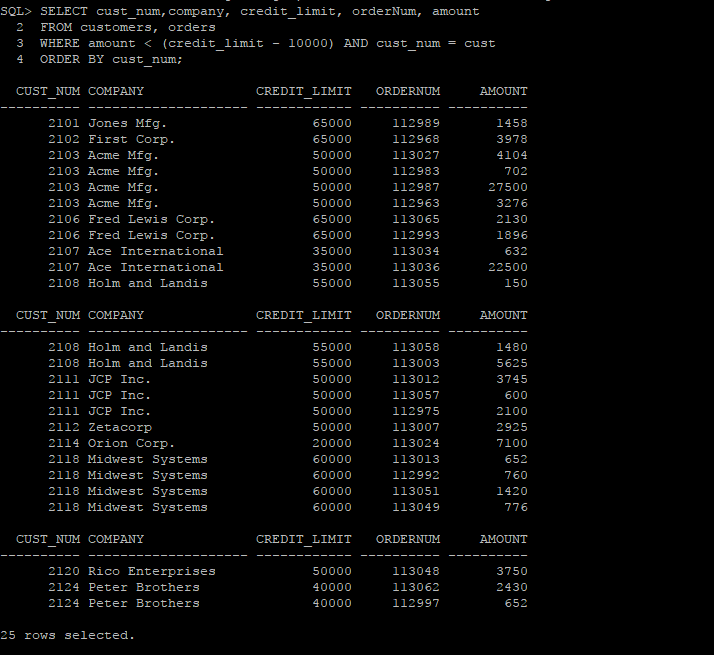
1.) List the Mfr Id, the Product Id, Company and PRICE of all products brought by customers where customer number is one of (2112,2105,2119) and where the amount of the order < $5000.00. Order the results by ascending Company



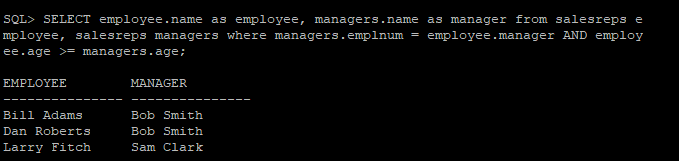
2) List all salesreps (id and names) and all orders (orderNumber) in which the salesrep is the company’s (i.e. the customer) rep (Cust Rep), but didn’t take the order. Order the result based on name in ascending order



3) List all customers (Customer number, Company, and Credit Limit) and orders (Order Number, Amount) where the order is within $10000.00 of the Credit Limit (less than or equal to $10000). Sort the result by Customer number in descending order.



4) List all salesreps names and their managers’ names where the salesrep is at least as old as the manager



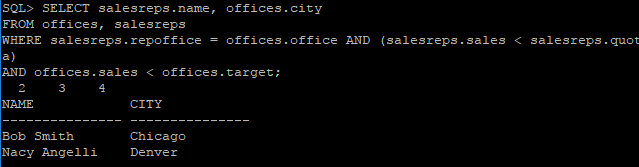
5) List all salesreps (Name) and the City they work in where the sales of the salesrep < Quota and the sales for the office is < Target.

SELECT salesreps.name, offices.city

FROM offices, salesreps

WHERE salesreps.repoffice = offices.office AND (salesreps.sales < salesreps.quota)

AND offices.sales < offices.target;



6) List the name, id, and hire date of the salesreps where at least one of the two conditions hold:

* The salesrep sales should be greater than the quota
* The salesrep has taken an order from Customer number 2117, 2111, or 2101.

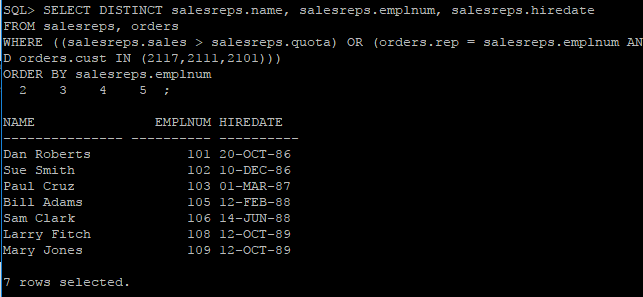
Sort the result by the salesrep’s id.

SELECT DISTINCT salesreps.name, salesreps.emplnum, salesreps.hiredate

FROM salesreps, orders

WHERE ((salesreps.sales > salesreps.quota) OR (orders.rep = salesreps.emplnum AND orders.cust IN (2117,2111,2101)))

ORDER BY salesreps.emplnum;

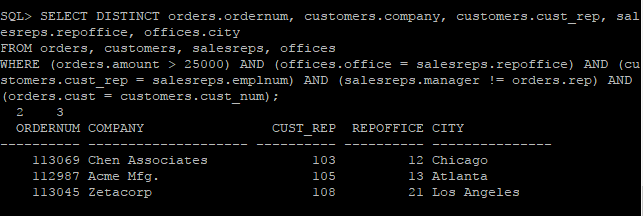


7) List all orders (Order Number) over $25000 showing the company placing the order, the Customer Rep assign to the company, the Office id and the city where the Customer Rep works in, such that the Customer Rep’s manager is not the person who actually took the order

SELECT DISTINCT orders.ordernum, customers.company, customers.cust\_rep, salesreps.repoffice, offices.city

FROM orders, customers, salesreps, offices

WHERE (orders.amount > 25000) AND (offices.office = salesreps.repoffice) AND (customers.cust\_rep = salesreps.emplnum) AND (salesreps.manager != orders.rep) AND (orders.cust = customers.cust\_num);



8) List all customer reps (their name and their id) and their managers name in which the manager has taken an order for the customer Rep’s company or the manager is based in New York or Denver. Use appropriate column header

SELECT DISTINCT salesreps.emplnum, salesreps.name, S1.name

FROM salesreps, salesreps S1, orders, offices, customers

WHERE salesreps.emplnum = customers.cust\_rep

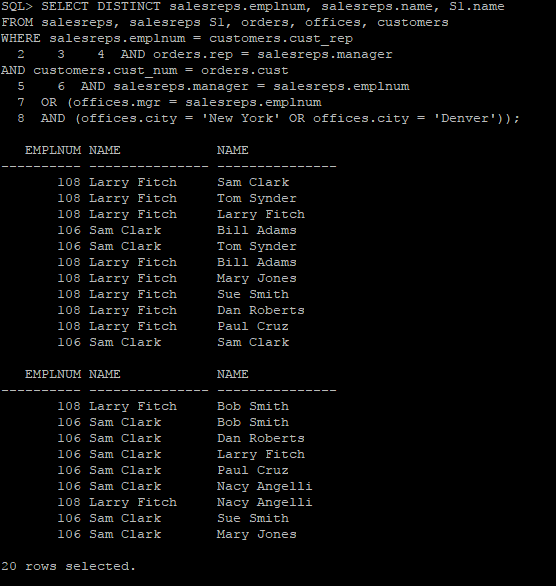
AND orders.rep = salesreps.manager

AND customers.cust\_num = orders.cust

AND salesreps.manager = salesreps.emplnum

OR (offices.mgr = salesreps.emplnum

AND (offices.city = 'New York' OR offices.city = 'Denver'));



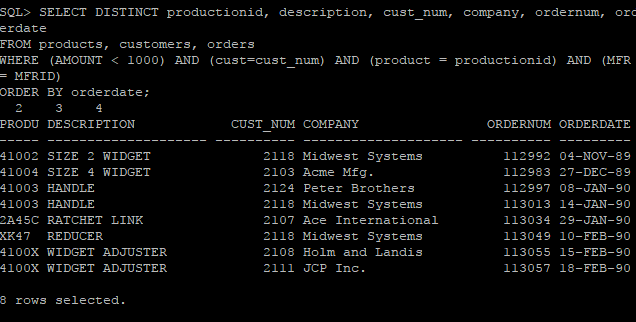
9) List all products (ProductId, and Description), customers (CustNum, Company) who have bought that product, and orders (Order Number, and Order Date) where the order < $1000. Sort the rows by the OrderDate.

SELECT DISTINCT productionid, description, cust\_num, company, ordernum, orderdate

FROM products, customers, orders

WHERE (AMOUNT < 1000) AND (cust=cust\_num) AND (product = productionid) AND (MFR = MFRID)

ORDER BY orderdate;



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

SELECT DISTINCT salesreps.name, S1.name

FROM salesreps, salesreps S1, orders

WHERE (salesreps.manager = S1.emplnum) AND (orders.rep = S1.emplnum);

