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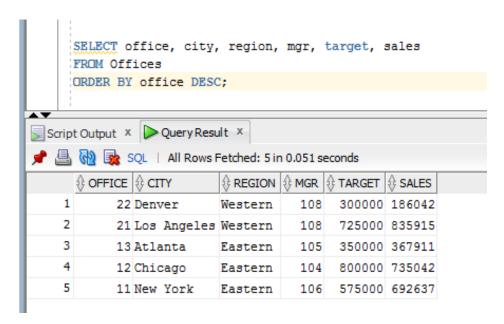
CS443 - Database Management Systems

14 November, 2023

### Assignment 1

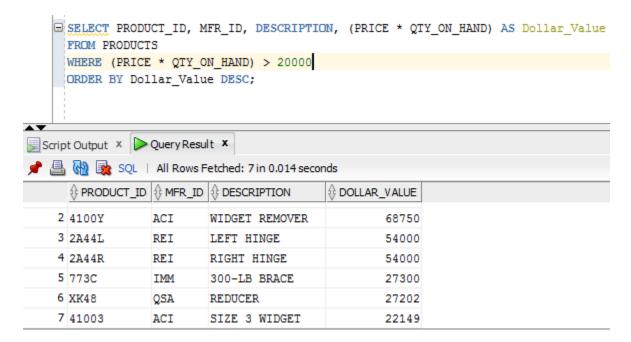
1) Write a select statement to list all the columns from the Offices table. 'Select \*' is not allowed. Return the list in DESC Office order

SELECT office, city, region, mgr, target, sales FROM Offices
ORDER BY office DESC;



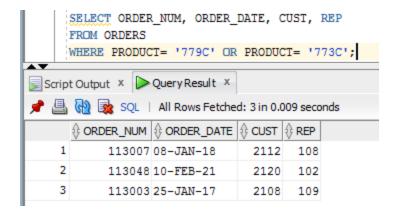
2) List the product ID, mfr ID, Name (its description), and dollar value of quantity on hand (price \* quantity) of the products whose dollar value is greater than 20000. Return the list in descending order by their dollar value

SELECT PRODUCT\_ID, MFR\_ID, DESCRIPTION, (PRICE \* QTY\_ON\_HAND) AS Dollar\_Value FROM PRODUCTS WHERE (PRICE \* QTY\_ON\_HAND) > 20000 ORDER BY Dollar Value DESC;



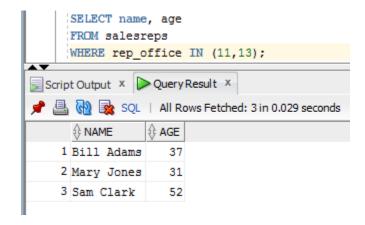
3) List the Order Number, Order Date, Customer Number, and Sales Rep Number for orders for part '779C' or '773C'. (Use a compound search condition - OR.)

SELECT ORDER\_NUM, ORDER\_DATE, CUST, REP FROM ORDERS
WHERE PRODUCT= '779C' OR PRODUCT= '773C';



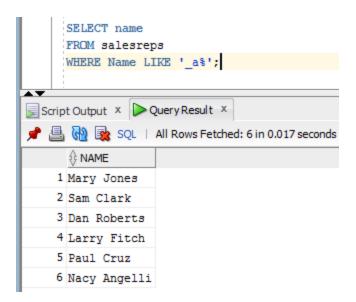
4) List the Name and Age of all Sales Reps in the following offices: 11; 13. (Use the set membership test - IN.)

SELECT name, age FROM salesreps WHERE rep\_office IN (11,13);



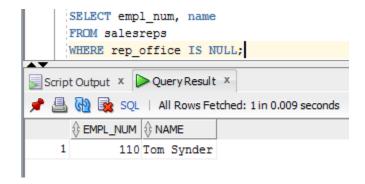
5) List the names of all Sales Reps who have the letter 'a' (this is lowercase a) as the second character of their name.

SELECT name FROM salesreps WHERE Name LIKE 'a%';



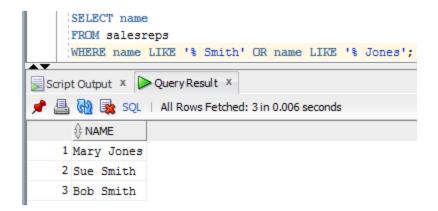
### 6) Return the Sales Rep ID and Name of any Sales Rep not assigned to an office yet.

SELECT empl\_num, name FROM salesreps WHERE rep\_office IS NULL;



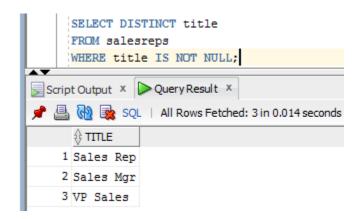
### 7) Show all the sales rep names with last names "Smith" or "Jones".

SELECT name FROM salesreps WHERE name LIKE '% Smith' OR name LIKE '% Jones';



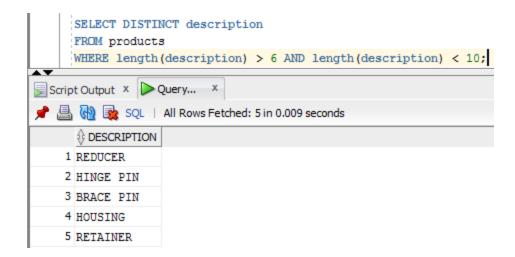
8) List different titles in the sales reps table. Only list each title once and unknown titles should be ignored. Duplicate rows are not allowed.

SELECT DISTINCT title FROM salesreps WHERE title IS NOT NULL;



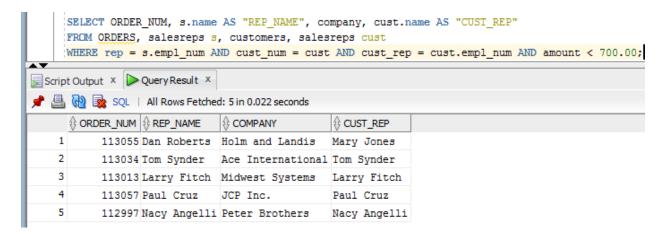
9) List the description of the products which are more than 6 characters and less than 10 characters long. No duplicate row is allowed. You can use the built in function length() to do this. For example, length(name) returns the number of characters for an attribute called "name".

SELECT DISTINCT description FROM products WHERE length(description) > 6 AND length(description) < 10;



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 AS "REP\_NAME", company, cust.name AS "CUST\_REP" FROM ORDERS, salesreps s, customers, salesreps cust WHERE rep = s.empl\_num AND cust\_num = cust AND cust\_rep = cust.empl\_num AND amount < 700.00;

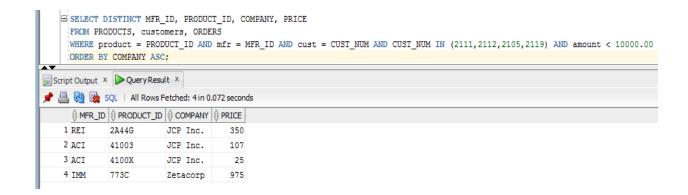


11) List the Mfr Id, the Product Id, Company and PRICE of all products bought by customers where customer number is one of (2111,2112,2105,2119) and where the amount of the order < \$10,000. Order the results by ascending Company. Duplicate rows are not allowed.

SELECT DISTINCT MFR\_ID, PRODUCT\_ID, COMPANY, PRICE FROM PRODUCTS, customers, ORDERS

WHERE product = PRODUCT\_ID AND mfr = MFR\_ID AND cust = CUST\_NUM AND CUST\_NUM IN (2111,2112,2105,2119) AND amount < 10000.00

ORDER BY COMPANY ASC;

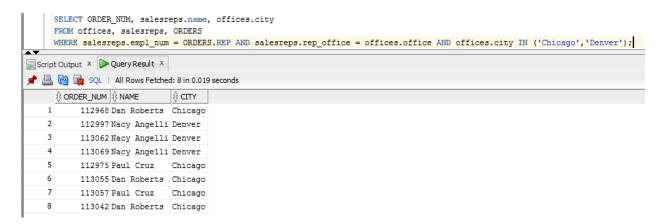


12) List all orders number, the name of the rep who took the order, the city where the rep has his/her office. Print the employee whose office is in either Chicago or Denver.

SELECT ORDER\_NUM, salesreps.name, offices.city

FROM offices, salesreps, ORDERS

WHERE salesreps.empl\_num = ORDERS.REP AND salesreps.rep\_office = offices.office AND offices.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

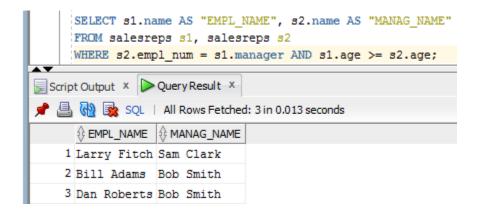
SELECT CUST\_NUM, COMPANY, CREDIT\_LIMIT, ORDER\_NUM, AMOUNT FROM customers, ORDERS

WHERE CREDIT\_LIMIT > 0.00 AND AMOUNT > 0.00 AND AMOUNT < CREDIT\_LIMIT AND (CREDIT\_LIMIT - AMOUNT) <= 10000.00 AND CUST\_NUM = CUST;



## 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 e.name AS "EMPL\_NAME", m.name AS "MANAG\_NAME" FROM salesreps s1, salesreps s2
WHERE s2.empl num = s1.manager AND s1.age >= s2.age;

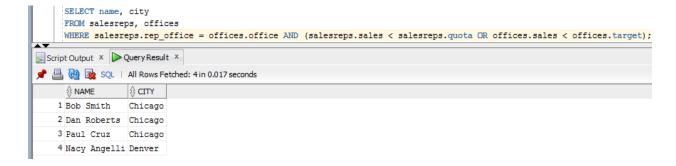


# 15) List all salesreps (Name) and the City they work in where either the sales of the salesrep < Quota or the sales for the office is < Target.

SELECT name, city

FROM salesreps, offices

WHERE salesreps.rep\_office = offices.office AND (salesreps.sales < salesreps.quota OR offices.sales < offices.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 empl\_num, name, hire\_date
FROM salesreps
WHERE (sales > quota) AND name LIKE '%Mary Jones' OR name LIKE '%Sam Clark';



17) List all orders (Order Number) over \$7,000 showing the company placing the order, the Customer Rep assigned 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
  o.ORDER NUM AS "Order Number",
  c.COMPANY AS "Company",
  c.CUST REP AS "Customer Rep ID",
  s.rep office AS "Office ID",
  ofc.CITY AS "City",
  o.REP AS "Rep Who Took the Order"
FROM
  ORDERS o
JOIN
  CUSTOMERS c ON o.CUST = c.CUST NUM
JOIN
  SALESREPS s ON c.CUST REP = s.empl num
JOIN
  OFFICES ofc ON s.rep office = ofc.OFFICE
WHERE
  o.AMOUNT > 7000
  AND c.CUST REP <> o.REP;
```

```
■ SELECT
         o.ORDER_NUM AS "Order Number",
         c.COMPANY AS "Company",
         c.CUST REP AS "Customer Rep ID",
         s.rep office AS "Office ID",
         ofc.CITY AS "City",
         o.REP AS "Rep Who Took the Order"
     FROM
         ORDERS o
     JOIN
         CUSTOMERS c ON o.CUST = c.CUST NUM
     JOIN
         SALESREPS s ON c.CUST REP = s.empl num
         OFFICES ofc ON s.rep office = ofc.OFFICE
     WHERE
         o.AMOUNT > 7000
         AND c.CUST REP <> o.REP;
Script Output × Query Result ×
📌 📇 🙀 🗽 SQL | All Rows Fetched: 3 in 0.021 seconds
      ♦ Order Number | ♦ Company
♦ Customer Rep ID | ♦ Office ID | ♦ City
                                                                         Rep Who Took the Order
    1
            113042 Ian and Schmidt
                                               104
                                                          12 Chicago
                                                                                          101
    2
            113069 Chen Associates
                                               103
                                                          12 Chicago
                                                                                          107
    3
            113024 Orion Corp.
                                               102
                                                          21 Los Angeles
                                                                                          108
```

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

SELECT DISTINCT employee.empl\_num, employee.name AS "EMPLOYEE\_NAME", managerr.name AS "MANAGER\_NAME" FROM customers, offices, salesreps employee, salesreps m1

WHERE employee.manager = m1.empl\_num AND m1.empl\_num = offices.mgr AND offices.city IN ('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 are not allowed.

SELECT PRODUCT\_ID, MFR\_ID, DESCRIPTION, CUST\_NUM, COMPANY, ORDER\_NUM, ORDER\_DATE FROM PRODUCTS, customers, ORDERS WHERE cust = CUST\_NUM AND product = PRODUCT\_ID AND mfr = MFR\_ID AND amount < 700.00 ORDER BY ORDER DATE;

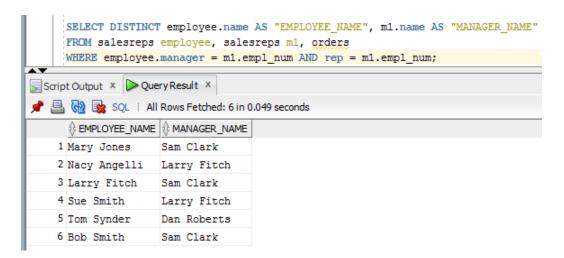
SELECT PRODUCT_ID, MFR_ID, DESCRIPTION, CUST_NUM, COMPANY, ORDER_NUM, ORDER_DATE							
FROM PRODUCTS, customers, ORDERS  WHERE cust = CUST_NUM AND product = PRODUCT_ID AND mfr = MFR_ID AND amount < 700.00							
ORDER BY ORDER_DATE;							
Script Output × Query Result ×							
📌 🖺 🔞 😪 SQL   All Rows Fetched: 5 in 0.019 seconds							
	♦ PRODUCT_ID	MFR_ID	♦ DESCRIPTION		COMPANY	♦ ORDER_NUM	♦ ORDER_DATE
1	41003	BIC	HANDLE	2118	Midwest Systems	113013	14-JAN-18
2	41003	BIC	HANDLE	2124	Peter Brothers	112997	08-JAN-21
3	4100X	ACI	WIDGET ADJUSTER	2111	JCP Inc.	113057	18-FEB-21
4	2A45C	REI	RATCHET LINK	2107	Ace International	113034	14-NOV-21
5	4100X	ACI	WIDGET ADJUSTER	2108	Holm and Landis	113055	15-FEB-22

### 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 employee.name AS "EMPLOYEE\_NAME", managerr.name AS "MANAGER NAME"

FROM salesreps employee, salesreps m1, orders

WHERE employee.manager = m1.empl num AND rep = m1.empl num;



#### **Oracle SQL Developer: TigerConnection**

#### Worksheet:

```
drop table customers;
drop table offices;
DROP TABLE PRODUCTS:
drop table salesreps;
DROP TABLE ORDERS;
CREATE TABLE CUSTOMERS
CUST NUM NUMBER(4,0) PRIMARY KEY,
COMPANY VARCHAR(20) NOT NULL,
CUST REP NUMBER(3,0),
CREDIT LIMIT NUMBER(10,2)
);
insert into customers values(2111, 'JCP Inc.', 103, 50000);
insert into customers values(2102, First Corp.', 101, 65000);
insert into customers values(2103,'Acme Mfg.',105,50000);
insert into customers values(2123, 'Carter and Sons', 102, 40000);
insert into customers values(2107, 'Ace International', 110, 35000);
insert into customers values(2115, 'Smithson Corp.', 101, 20000);
insert into customers values(2101, Jones Mfg.', 106, 65000);
insert into customers values(2112, 'Zetacorp', 108, 50000);
insert into customers values(2121,'QMA Assoc.',103,45000);
insert into customers values(2114, 'Orion Corp.', 102, 20000);
insert into customers values(2124, 'Peter Brothers', 107, 40000);
insert into customers values(2108, 'Holm and Landis', 109, 55000);
insert into customers values(2117, J.P. Sinclair', 106, 35000);
insert into customers values(2122, 'Three-Way Lines', 105, 30000);
insert into customers values(2120, 'Rico Enterprises', 102, 50000);
insert into customers values(2106, 'Fred Lewis Corp.', 102, 65000);
insert into customers values(2119, 'Solomon Inc.', 109, 25000);
insert into customers values(2118,'Midwest Systems',108,60000);
insert into customers values(2113, 'Ian and Schmidt', 104, 20000):
insert into customers values(2109, 'Chen Associates', 103, 25000);
insert into customers values(2105,'AAA Investments',101,45000);
create table offices
office number(2,0) primary key,
city varchar2(15) not null,
region varchar2(10) not null,
mgr number(3,0),
target number (10,2),
```

```
sales number(10,2) not null
insert into offices values(22, 'Denver', 'Western', 108, 300000, 186042);
insert into offices values(11,'New York', 'Eastern', 106,575000,692637);
insert into offices values(12, 'Chicago', 'Eastern', 104, 800000, 735042);
insert into offices values(13,'Atlanta','Eastern',105,350000,367911);
insert into offices values(21, 'Los Angeles', 'Western', 108, 725000, 835915);
CREATE TABLE PRODUCTS
MFR ID VARCHAR2(3) NOT NULL,
PRODUCT ID VARCHAR2(5) NOT NULL,
DESCRIPTION VARCHAR2(20) NOT NULL,
PRICE NUMBER(9,2) NOT NULL,
QTY ON HAND NUMBER(5,0) NOT NULL
INSERT INTO PRODUCTS VALUES('REI','2A45C','RATCHET LINK',79,210);
INSERT INTO PRODUCTS VALUES('ACI','4100Y','WIDGET REMOVER',2750,25);
INSERT INTO PRODUCTS VALUES('QSA','XK47','REDUCER',355,38);
INSERT INTO PRODUCTS VALUES('BIC','41672','PLATE',180,0);
INSERT INTO PRODUCTS VALUES('IMM','779C','900-LB BRACE',1875.9);
INSERT INTO PRODUCTS VALUES('ACI','41003','SIZE 3 WIDGET',107,207);
INSERT INTO PRODUCTS VALUES('ACI','41004','SIZE 4 WIDGET',117,139);
INSERT INTO PRODUCTS VALUES('BIC','41003','HANDLE',652,3);
INSERT INTO PRODUCTS VALUES('IMM','887P','BRACE PIN',250,24);
INSERT INTO PRODUCTS VALUES('QSA','XK48','REDUCER',134,203);
INSERT INTO PRODUCTS VALUES('REI','2A44L','LEFT HINGE',4500,12);
INSERT INTO PRODUCTS VALUES('FEA','112','HOUSING',148,115);
INSERT INTO PRODUCTS VALUES('IMM','887F','BRACE HOLDER',54,223);
INSERT INTO PRODUCTS VALUES('BIC','41089','RETAINER',225,78);
INSERT INTO PRODUCTS VALUES('ACI','41001','SIZE 1 WIDGET',55,277);
INSERT INTO PRODUCTS VALUES('IMM','775C','500-LB BRACE',1425,5);
INSERT INTO PRODUCTS VALUES('ACI','4100Z','WIDGET INSTALLER',2500,28);
INSERT INTO PRODUCTS VALUES('QSA','XK48A','REDUCER',177,37);
INSERT INTO PRODUCTS VALUES('ACI','41002','SIZE 2 WIDGET',76,167);
INSERT INTO PRODUCTS VALUES('REI','2A44R','RIGHT HINGE',4500,12):
INSERT INTO PRODUCTS VALUES('IMM','773C','300-LB BRACE',975,28);
INSERT INTO PRODUCTS VALUES('ACI','4100X','WIDGET ADJUSTER',25,37);
INSERT INTO PRODUCTS VALUES('FEA','114','MOTOR MOUNT',243,15);
INSERT INTO PRODUCTS VALUES('IMM','887X','BRACE RETAINER',475,32);
INSERT INTO PRODUCTS VALUES('REI','2A44G','HINGE PIN',350,14);
create table salesreps
empl num number(3,0) primary key,
name varchar2(15) not null,
```

```
age number(3,0),
rep office number (2,0),
title varchar2(10),
hire date varchar2(10) not null,
manager number (3.0).
quota number(10,2),
sales number(10,2) not null
insert into salesreps values (105, 'Bill Adams', 37, 13, 'Sales Rep', '12-FEB-18', 104, 350000, 367911);
insert into salesreps values (109, 'Mary Jones', 31, 11, 'Sales
Rep','12-OCT-19',106,300000,392725);
insert into salesreps values (102, 'Sue Smith', 48, 21, 'Sales Rep', '10-DEC-20', 108, 350000, 474050);
insert into salesreps values (106, Sam Clark', 52, 11, VP
Sales','14-JUN-21',NULL,275000,299912);
insert into salesreps values (104, 'Bob Smith', 33, 12, 'Sales
Mgr','19-MAY-22',106,200000,142594);
insert into salesreps values (101, 'Dan Roberts', 45, 12, 'Sales
Rep','20-OCT-18',104,300000,305673);
insert into salesreps values (110, 'Tom Synder', 41, NULL, 'Sales
Rep','13-JAN-19',101,NULL,75985);
insert into salesreps values (108, Larry Fitch, 62, 21, Sales
Mgr','12-OCT-20',106,350000,361865);
insert into salesreps values (103, 'Paul Cruz', 29, 12, 'Sales Rep', '01-MAR-22', 104, 275000, 286775);
insert into salesreps values (107, 'Nacy Angelli', 49, 22, 'Sales
Rep','14-NOV-21',108,300000,186042);
CREATE TABLE ORDERS
ORDER NUM NUMBER(6,0) PRIMARY KEY,
ORDER DATE Date NOT NULL.
CUST NUMBER(4,0) NOT NULL,
REP NUMBER(3,0),
MFR VARCHAR2(3) NOT NULL,
PRODUCT VARCHAR2(5) NOT NULL,
OTY NUMBER(4,0) NOT NULL.
AMOUNT NUMBER(9,2) NOT NULL
);
INSERT INTO ORDERS VALUES (112961, '17-DEC-18', 2117, 106, 'REI', '2A44L', 7, 31500);
INSERT INTO ORDERS VALUES (113012,'11-JAN-19',2111,105,'ACI','41003',35,3745);
INSERT INTO ORDERS VALUES (112989,'03-JAN-20',2101,106,'FEA','114',6,1458);
INSERT INTO ORDERS VALUES (113051,'10-FEB-22',2118,108,'QSA','K47',4,1420);
INSERT INTO ORDERS VALUES (112968, '14-NOV-21', 2102, 101, 'ACI', '41004', 34, 3978);
INSERT INTO ORDERS VALUES (113036,'30-JAN-22',2107,110,'ACI','4100Z',9,22500);
INSERT INTO ORDERS VALUES (113045, '02-FEB-21', 2112, 108, 'REI', '2A44R', 10, 45000);
INSERT INTO ORDERS VALUES (112963, '10-DEC-20', 2103, 105, 'ACI', '41004', 28, 3276);
INSERT INTO ORDERS VALUES (113013,'14-JAN-18',2118,108,'BIC','41003',1,652);
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```
INSERT INTO ORDERS VALUES (113058,'23-FEB-22',2108,109,'FEA','112',10,1480);
INSERT INTO ORDERS VALUES (112997,'08-JAN-21',2124,107,'BIC','41003',1,652);
INSERT INTO ORDERS VALUES (112983,'27-DEC-19',2103,105,'ACI','41004',6,702);
INSERT INTO ORDERS VALUES (113024,'20-JAN-18',2114,108,'QSA','XK47',20,7100);
INSERT INTO ORDERS VALUES (113062,'24-FEB-17',2124,107,'FEA','114',10,2430);
INSERT INTO ORDERS VALUES (112979, '10-DEC-20', 2114, 102, 'ACI', '4100Z', 6, 15000);
INSERT INTO ORDERS VALUES (113027,'22-JAN-17',2103,105,'ACI','41002',54,4104);
INSERT INTO ORDERS VALUES (113007,'08-JAN-18',2112,108,'IMM','773C',3,2925);
INSERT INTO ORDERS VALUES (113069,'02-MAR-19',2109,107,'IMM','775C',22,31350);
INSERT INTO ORDERS VALUES (113034,'14-NOV-21',2107,110,'REI','2A45C',8,632);
INSERT INTO ORDERS VALUES (112992,'04-NOV-21',2118,108,'ACI','41002',10,760);
INSERT INTO ORDERS VALUES (112975, '12-OCT-18', 2111, 103, 'REI', '2A44G', 6, 2100);
INSERT INTO ORDERS VALUES (113055, '15-FEB-22', 2108, 101, 'ACI', '4100X', 6, 150);
INSERT INTO ORDERS VALUES (113048,'10-FEB-21',2120,102,'IMM','779C',2,3750);
INSERT INTO ORDERS VALUES (112993,'04-JAN-19',2106,102,'REI','2A45C',24,1896);
INSERT INTO ORDERS VALUES (113065,'27-FEB-18',2106,102,'QSA','XK47',6,2130);
INSERT INTO ORDERS VALUES (113003,'25-JAN-17',2108,109,'IMM','779C',3,5625);
INSERT INTO ORDERS VALUES (113049,'10-FEB-17',2118,108,'QSA','XK47',2,776);
INSERT INTO ORDERS VALUES (112987,'31-DEC-18',2103,105,'ACI','4100Y',11,27500);
INSERT INTO ORDERS VALUES (113057,'18-FEB-21',2111,103,'ACI','4100X',24,600);
INSERT INTO ORDERS VALUES (113042,'02-FEB-22',2113,101,'REI','2A44R',5,22500);
SELECT office, city, region, mgr, target, sales
FROM Offices
ORDER BY office DESC;
SELECT PRODUCT ID, MFR ID, DESCRIPTION, (PRICE * QTY ON HAND) AS
Dollar Value
FROM PRODUCTS
WHERE (PRICE * OTY ON HAND) > 20000
ORDER BY Dollar Value DESC;
SELECT ORDER NUM, ORDER DATE, CUST, REP
FROM ORDERS
WHERE PRODUCT= '779C' OR PRODUCT= '773C';
SELECT name, age
FROM salesreps
WHERE rep office IN (11,13);
SELECT name
FROM salesreps
```

WHERE Name LIKE ' a%';

SELECT empl num, name

FROM salesreps

WHERE rep office IS NULL;

SELECT name

FROM salesreps

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

SELECT DISTINCT title

FROM salesreps

WHERE title IS NOT NULL;

SELECT DISTINCT description

FROM products

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

SELECT ORDER\_NUM, s.name AS "REP\_NAME", company, cust.name AS "CUST\_REP" FROM ORDERS, salesreps s, customers, salesreps cust

WHERE rep = s.empl\_num AND cust\_num = cust AND cust\_rep = cust.empl\_num AND amount < 700.00;

SELECT DISTINCT MFR ID, PRODUCT ID, COMPANY, PRICE

FROM PRODUCTS, customers, ORDERS

WHERE product = PRODUCT\_ID AND mfr = MFR\_ID AND cust = CUST\_NUM AND CUST\_NUM IN (2111,2112,2105,2119) AND amount < 10000.00 ORDER BY COMPANY ASC;

SELECT ORDER NUM, salesreps.name, offices.city

FROM offices, salesreps, ORDERS

WHERE salesreps.empl\_num = ORDERS.REP AND salesreps.rep\_office = offices.office AND offices.city IN ('Chicago','Denver');

SELECT CUST\_NUM, COMPANY, CREDIT\_LIMIT, ORDER\_NUM, AMOUNT FROM customers, ORDERS

WHERE CREDIT\_LIMIT > 0.00 AND AMOUNT > 0.00 AND AMOUNT < CREDIT\_LIMIT AND (CREDIT\_LIMIT - AMOUNT) <= 10000.00 AND CUST\_NUM = CUST;

SELECT s1.name AS "EMPL\_NAME", s2.name AS "MANAG\_NAME"

FROM salesreps s1, salesreps s2

WHERE s2.empl num = s1.manager AND s1.age >= s2.age;

SELECT name, city

FROM salesreps, offices

WHERE salesreps.rep\_office = offices.office AND (salesreps.sales < salesreps.quota OR offices.sales < offices.target);

SELECT empl\_num, name, hire\_date

FROM salesreps

```
WHERE (sales > quota) AND name LIKE '%Mary Jones' OR name LIKE '%Sam Clark';
SELECT
  o.ORDER NUM AS "Order Number",
  c.COMPANY AS "Company",
  c.CUST REP AS "Customer Rep ID",
  s.rep office AS "Office ID",
  ofc.CITY AS "City",
  o.REP AS "Rep Who Took the Order"
FROM
  ORDERS o
JOIN
  CUSTOMERS c ON o.CUST = c.CUST NUM
JOIN
  SALESREPS s ON c.CUST REP = s.empl num
JOIN
  OFFICES ofc ON s.rep office = ofc.OFFICE
WHERE
  o.AMOUNT > 7000
  AND c.CUST REP <> o.REP;
SELECT DISTINCT employee.empl num, employee.name AS "EMPLOYEE NAME",
managerr.name AS "MANAGER NAME"
FROM customers, offices, salesreps employee, salesreps m1
WHERE employee.manager = m1.empl num AND m1.empl num = offices.mgr AND
offices.city IN ('New York');
SELECT PRODUCT ID, MFR ID, DESCRIPTION, CUST NUM, COMPANY,
ORDER NUM, ORDER DATE
FROM PRODUCTS, customers, ORDERS
WHERE cust = CUST NUM AND product = PRODUCT_ID AND mfr = MFR_ID AND
amount < 700.00
ORDER BY ORDER DATE;
SELECT DISTINCT employee.name AS "EMPLOYEE NAME", m1.name AS
```

"MANAGER NAME"

FROM salesreps employee, salesreps m1, orders

WHERE employee.manager = m1.empl num AND rep = m1.empl num;