02.Queries.sql

**USE** SqlAssignment;

*--1.Display snum,sname,city and comm of all salespeople.*

**SELECT** Snum, Snum, City, Comm

**FROM** SalesPeople;

**GO**

*--2.Display all snum without duplicates from all orders.*

**SELECT** **DISTINCT** Snum

**FROM** Orders;

**GO**

*--3.Display names and commissions of all salespeople in london.*

**SELECT** Snum, Comm

**FROM** SalesPeople

**WHERE** City = 'London';

**GO**

*--4.All customers with rating of 100.*

**SELECT** Cname

**FROM** Customers

**WHERE** Rating = 100;

**GO**

*--5.Produce orderno, amount and date form all rows in the order table.*

**SELECT** Onum, AMT, Odate

**FROM** Orders;

**GO**

*--6.All customers in San Jose, who have rating more than 200*

**SELECT** Cname, City, Rating

**FROM** Customers

**WHERE** City = 'San Jose' AND Rating > 200;

**GO**

*--7.All customers who were either located in San Jose or had a rating above 200*

**SELECT** Cname, City, Rating

**FROM** Customers

**WHERE** City = 'San Jose' OR Rating > 200;

**GO**

*--8.All orders for more than $1000.*

**SELECT** \*

**FROM** Orders

**WHERE** AMT > 1000;

**GO**

*--9.Names and cites of all salespeople in london with commission above 0.10.*

**SELECT** Sname, City, Comm

**FROM** SalesPeople

**WHERE** City = 'London' AND Comm > 0.10;

**GO**

*--10.All customers excluding those with rating <= 100 unless they are located in Rome*

**SELECT** Cname, City, Rating

**FROM** Customers

**WHERE** Rating <= 100 OR City = 'Rome';

**GO**

*--11.All salespeople either in Barcelona or in london.*

**SELECT** Sname, City

**FROM** SalesPeople

**WHERE** City IN ('Barcelona','london');

**GO**

*--12.All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded)*

**SELECT** Sname, Comm

**FROM** SalesPeople

**WHERE** Comm > 0.10 AND Comm < 0.12;

**GO**

*--13.All customers with NULL values in city column.*

**SELECT** Cname, City

**FROM** Customers

**WHERE** City IS NULL;

**GO**

*--14.All orders taken on Oct 3Rd and Oct 4th 1994.*

**SELECT** \*

**FROM** Orders

**WHERE** Odate IN ('03-OCT-94','04-OCT-94');

**GO**

*--15.All customers serviced by peel or Motika.*

**SELECT** Cname

**FROM** Customers, Orders

**WHERE** Orders.Cnum = Customers.Cnum

AND Orders.Snum IN( **SELECT** Snum **FROM** SalesPeople **WHERE** Sname IN ('Peel','Motika'));

**GO**

*--16.All customers whose names begin with a letter from A to B.*

**SELECT** Cname

**FROM** Customers

**WHERE** Cname LIKE 'A%' OR Cname LIKE 'B%';

**GO**

*--17.All orders except those with 0 or NULL value in amt field.*

**SELECT** \*

**FROM** Orders

**WHERE** AMT != 0 OR AMT IS NOT NULL;

**GO**

*--18.Count the number of salespeople currently listing orders in the order table.*

**SELECT** COUNT(**DISTINCT** Snum) **AS** 'salespeople currently listing orders'

**FROM** Orders;

**GO**

*--19.Largest order taken by each salesperson, datewise*

**SELECT** Snum, Odate, MAX(AMT) **AS** 'Largest order'

**FROM** Orders

**GROUP** **BY** Odate, Snum

**ORDER** **BY** Odate,Snum;

**GO**

*--20.Largest order taken by each salesperson with order value more than $3000.*

**SELECT** Snum, Odate, MAX(AMT) **AS** 'Largest order'

**FROM** Orders

**WHERE** AMT > 3000

**GROUP** **BY** Odate, Snum

**ORDER** **BY** Odate, Snum;

**GO**

*--21.Which day had the hightest total amount ordered.*

**SELECT** Odate, AMT, Snum, Cnum

**FROM** Orders

**WHERE** AMT = ( **SELECT** MAX(AMT) **FROM** Orders);

**GO**

*--22.Count all orders for Oct 3rd.*

**SELECT** COUNT(\*) **AS** 'Orders on Oct 3rd'

**FROM** Orders

**WHERE** Odate = '03-OCT-94';

**GO**

*--23.Count the number of different non NULL city values in customers table.*

**SELECT** COUNT(**DISTINCT** City)

**FROM** Customers;

**GO**

*--24.Select each customer’s smallest order.*

**SELECT** Cnum, MIN(AMT)

**FROM** Orders

**GROUP** **BY** Cnum;

**GO**

*--25.First customer in alphabetical order whose name begins with G.*

**SELECT** MIN(Cname)

**FROM** Customers

**WHERE** Cname LIKE 'G%';

**GO**

*-- --26.Get the output like “ For dd/mm/yy there are \_\_\_ orders.*

*-- SELECT 'For' (CONVERT(varchar(10), GETDATE(),120)) || 'there are' || COUNT(\*) || 'Orders'*

*-- FROM Orders*

*-- GROUP BY Odate;*

*-- GO*

*--27.Assume that each salesperson has a 12% commission. Produce order no., salesperson no.,*

*--and amount of salesperson’s commission for that order.*

**SELECT** Onum, Snum, AMT, AMT \* 0.12 **AS** 'Commission'

**FROM** Orders

**ORDER** **BY** Snum;

**GO**

*--28. Find highest rating in each city. Put the output in this form. For the city (city),*

*--the highest rating is : (rating).*

*-- Select 'For the city (' || City || '), the highest rating is : (' || MAX(Rating) || ')'*

*-- FROM Customers*

*-- GROUP BY city;*

*--29.Display the totals of orders for each day and place the results in descending order.*

**SELECT** Odate, COUNT(Onum) **AS** 'Total No of Orders'

**FROM** Orders

**GROUP** **BY** Odate

**ORDER** **BY** COUNT(Onum) **DESC**;

**GO**

*--30.All combinations of salespeople and customers who shared a city. (ie same city).*

**SELECT** Sname, Cname, S.City **AS** City

**FROM** SalesPeople **AS** S, Customers **AS** C

**WHERE** S.City = C.City;

**GO**

*--31.Name of all customers matched with the salespeople serving them*

**SELECT** Cname, Sname

**FROM** Customers **AS** C, SalesPeople **AS** S

**WHERE** C.Snum = S.Snum;

**GO**

*--32.List each order number followed by the name of the customer who made the order.*

**SELECT** Onum, Cname

**FROM** Customers **AS** C, Orders **AS** O

**WHERE** O.Cnum = C.Cnum;

**GO**

*--33.Names of salesperson and customer for each order after the order number.*

**SELECT** Onum, Sname, Cname

**FROM** Orders **AS** O, Customers **AS** C, SalesPeople **AS** S

**WHERE** O.Cnum = C.Cnum and O.Snum = S.Snum;

**GO**

*--34.Produce all customer serviced by salespeople with a commission above 12%.*

**SELECT** Cname, Sname, Comm

**FROM** Customers **AS** C, SalesPeople **AS** S

**WHERE** Comm > 0.12 AND C.Snum = S.Snum;

**GO**

*--35.Calculate the amount of the salesperson’s commission on each order with a rating above 100.*

**SELECT** Sname, AMT\*Comm, Rating

**FROM** Customers **AS** C, SalesPeople **AS** S, Orders **AS** O

**WHERE** Rating > 100 AND

S.Snum = C.Snum AND

S.Snum = O.Snum AND

O.Cnum = C.Cnum;

**GO**

*--36.Find all pairs of customers having the same rating.*

**SELECT** a.Cname, b.Cname, a.Rating

**FROM** Customers a, Customers b

**WHERE** a.Rating = b.Rating and a.Cnum != b.Cnum;

**GO**

*--37.Find all pairs of customers having the same rating, each pair coming once only.*

**SELECT** a.Cname, b.Cname, a.Rating

**FROM** Customers a, Customers b

**WHERE** a.Rating = b.Rating AND a.Cnum != b.Cnum AND a.Cnum < b.Cnum;

**GO**

*--38.Policy is to assign three salesperson to each customers. Display all such combinations.*

*-- Select Cname, Sname*

*-- FROM SalesPeople, Customers*

*-- WHERE Sname IN ( SELECT Sname FROM salespeople WHERE rownum <= 3)*

*-- ORDER BY Cname;*

*-- GO*

*--39.Display all customers located in cities where salesman serres has customer.*

**SELECT** Cname

**FROM** Customers

**WHERE** City IN ( **SELECT** City **FROM** Customers **AS** C, Orders **AS** O

**WHERE** C.Cnum = O.Cnum AND

O.Snum IN ( **SELECT** Snum **FROM** SalesPeople

**WHERE** Sname = 'Serres'));

**GO**

*--40.Find all pairs of customers served by single salesperson.*

**SELECT** **DISTINCT** a.Cname

**FROM** Customers a ,Customers b

**WHERE** a.Snum = b.Snum and a.Cnum != b.Cnum;

**GO**

*--41.Produce all pairs of salespeople which are living in the same city.*

*--Exclude combinations of salespeople with themselves as well as duplicates with the order reversed.*

**SELECT** a.Sname, b.Sname

**FROM** SalesPeople a, SalesPeople b

**WHERE** a.Snum > b.Snum AND a.City = b.City;

**GO**

*--42.Produce all pairs of orders by given customer, names that customers and eliminates duplicates.*

**SELECT** c.Cname, a.Onum, b.Onum

**FROM** Orders a, Orders b, Customers c

**WHERE** a.Cnum = b.Cnum AND

a.Onum > b.Onum AND

c.Cnum = a.Cnum;

**GO**

*--43.Produce names and cities of all customers with the same rating as Hoffman.*

**SELECT** Cname, City

**FROM** Customers

**WHERE** Rating = (**SELECT** Rating **FROM** Customers **WHERE** Cname = 'Hoffman') AND Cname != 'Hoffman';

**GO**

*--44.Extract all the orders of Motika.*

**SELECT** Onum

**FROM** Orders

**WHERE** Snum = ( **SELECT** Snum **FROM** SalesPeople **WHERE** Sname = 'Motika');

**GO**

*--45.All orders credited to the same salesperson who services Hoffman*

**SELECT** Onum, sname, Cname, AMT

**from** Orders **AS** O, SalesPeople **AS** S, Customers C

**where** O.Snum = S.Snum AND O.Cnum = C.Cnum AND

O.Snum = ( **SELECT** Snum **FROM** Orders

**WHERE** Cnum = ( **SELECT** Cnum **FROM** Customers

**WHERE** Cname = 'Hoffman'));

**GO**

*--46.All orders that are greater than the average for Oct 4.*

**SELECT** \*

**FROM** Orders

**WHERE** AMT > ( **SELECT** AVG(AMT) **FROM** Orders

**WHERE** Odate = '03-OCT-94');

**GO**

*--47.Find average commission of salespeople in london.*

**SELECT** AVG(Comm)

**FROM** SalesPeople

**WHERE** City = 'London';

**GO**

*--48.Find all orders attributed to salespeople servicing customers in london.*

**SELECT** Snum, Cnum

**FROM** Orders

**WHERE** Cnum IN (**SELECT** Cnum **FROM** Customers **WHERE** City = 'London');

**GO**

*--49.Extract commissions of all salespeople servicing customers in London.*

**SELECT** Comm

**FROM** SalesPeople

**WHERE** Snum IN (**SELECT** Snum **FROM** Customers **WHERE** City = 'London');

**GO**

*--50.Find all customers whose cnum is 1000 above the snum of serres.*

**SELECT** Cnum, Cname **from** Customers

**where** Cnum > ( **SELECT** Snum + 1000

**FROM** SalesPeople

**WHERE** Sname = 'Serres');

**GO**