Prince 101916056 2cs10 assignment 7 असाइनमेंट 7 In []: CREATE TABLE Salespeople snum integer PRIMARY KEY sname CHAR(10) unique CHAR(10), comm NUMBER(10,2) **CREATE TABLE Customers** cnum integer PRIMARY KEY cname char(10) CHAR(10) not null, city snum integer REFERENCES Salespeople CREATE TABLE orders onum integer PRIMARY KEY DECIMAL odate DATE NOT NULL cnum INTEGER snum INTEGER FOREIGN KEY (snum) REFERENCES Salespeople FOREIGN KEY (cnum) REFERENCES Customers INSERT INTO Salespeople VALUES (1001, 'Peel', 'London', .12); INSERT INTO Salespeople VALUES (1002, 'Serres', 'Sanjose', .13); INSERT INTO Salespeople VALUES (1004, 'Motika', 'Landon', .11); INSERT INTO Salespeople VALUES (1007, 'Rifkin', 'Barcelona', .15); INSERT INTO Salespeople VALUES (1003, 'Axelrod', 'Newyork', .10); INSERT INTO Salespeople VALUES (1009, 'Rafale', 'Barcelona', .15); INSERT INTO Salespeople VALUES (1008, 'Axe', 'Newyork', .10); INSERT INTO Salespeople VALUES (1011, 'chapsi', 'Newyork', .11); INSERT INTO Customers VALUES (2001, 'Hoffman', 'London', 1001); INSERT INTO Customers VALUES (2002, 'Giovanni', 'Rome', 1003); INSERT INTO Customers VALUES (2003, 'Liu', 'Sanjose', 1002); INSERT INTO Customers VALUES (2004, 'Grass', 'Berlin', 1002); INSERT INTO Customers VALUES (2006, 'clements', 'London', 1001); INSERT INTO Customers VALUES (INSERT INTO Customers VALUES (2007, 'Pereira', 'Rome', 1004); select * from Customers; INSERT INTO orders VALUES (3001,18.69, '3-10-1990', 2008, 1007); INSERT INTO orders VALUES (3003,767.19,'3-10-1990',2001,1001); INSERT INTO orders VALUES (3002,1900.10,'3-10-1990',2007,1004); INSERT INTO orders VALUES (3005,5160.45, '3-oct-1990',2003,1002); INSERT INTO orders VALUES (3006, 1098.16, '3-oct-1990', 2008, 1007); INSERT INTO orders VALUES (3009,1713.23,'4-oct-1990',2002,1003); INSERT INTO orders VALUES (3007,75.75, '4-oct-1990', 2004, 1002); INSERT INTO orders VALUES (3008,4273.00,'5-oct-1990',2006,1001); INSERT INTO orders VALUES (3010, 1309.95, '6-oct-1990', 2004, 1002); INSERT INTO orders VALUES (3011,9891.88, '6-oct-1990',2006,1001); INSERT INTO orders VALUES (300,5160.45, '3-oct-1990',2003,1002); select * from salespeople; select * from orders; select * from customers In []: --1) Count the number of Salesperson whose name begin with 'a'/'A'. select count(*) from salespeople where sname like 'a%' or sname like 'A%' output उत्पादन In []: COUNT(*) In []: --2) Display all the Salesperson whose all orders worth is more than Rs. 2000 --q2 next both queries are correct अगले दोनों उत्तर सही हैं select sname from salespeople where snum in (select snum from orders group by snum having sum(amt)>2000); select distinct s.sname from salespeople s join orders o on (s.snum=o.snum) group by sname having sum(o.amt)>2000; output उत्पादन In []: SNAME Serres Peel In []: | --q3 --3) Count the number of Salesperson belonging to Newyork. select count(*) from salespeople where city='Newyor output उत्पादन In []: COUNT(*) In []: Display the number of Salespeople belonging to Landon and belonging to Paris. --q4 select count(*) from salespeople where city in ('Landon', 'Paris') output उत्पादन In []: | COUNT(*) --5) Display the number of orders taken by each Salesperson and their date of orders. select sum(select s.sname,o.snum,count(o.onum),o.odate from orders o full outer join salespeople s on (s.snum=o.snum) group by distinct s.sname,o.snum,o.odate) from salespeople group by sname; --missing expression नामौजूद अभिव्यक्ति output उत्पादन In []: In []: --6) Write a query that counts the number of Salespeople registering orders for select odate,count(distinct snum) from orders group by odate output उत्पादन In []: ODATE COUNT (DISTINCTSNUM -OCT-90 -OCT-90 -OCT-90 -OCT-9 In []: --7) Write a query that selects the first customer in alphabetical order , whose name begins with 'G'. select * from customers where cname like 'G%' order by cname FETCH FIRST 1 ROWS ONLY output उत्पादन In []: CNUM SNUM CNAME CITY Giovanni Rome In []: --8) Find out the largest orders for Snum 1002 & 100 - - q8 select max(amt) from orders group by snum having snum in (1002,1007); output उत्पादन In []: MAX (AMT In []: Find out the maximum single order amount of a Salesperson over Rs. --q9 -- both are correct in different sense of question दोनों अलग-अलग अर्थों में सही हैं SELECT snum, max(amt) FROM orders GROUP BY snum having max(amt)>3000; select max(amt) from orders; output उत्पादन In []: SNUM MAX (AMT) In []: Find out the no. of Salesperson who belongs to same city and have same commission percentage. --q10 both queries are correct becuase group by(city, comm) is same as group by city, comm select count(city),city,comm from salespeople group by (city, comm) having count(city)>1; select city ,comm,count(city),count(comm) from salespeople group by city,comm having count(city)>1 and count(comm)>1 output उत्पादन In []: COUNT(CITY) CITY COMM ewyork .1 Ва rcelona **Assignment 8** In []: ----- q1 1-Find those salesperson name who live in any one of the city of customers -- (do it both with sub-query and join) select distinct sname from salespeople inner join customers on salespeople.city=customers.city; select distinct s1.snum , s1.sname from salespeople s1, customers c1 where s1.city=c1.city; -- subquery सबक्वेरी select sname from salespeople where city in (select city from customers) output उत्पादन In []: SNUM SNAME Serres Peel In []: -----q2 --2-Find those salesperson name, customers name who belong to any one of the --city of customers -- (do it both with sub-query and join -- subquery मैंने एक कॉलम में आउटपुट प्राप्त करने के लिए यूनियन का उपयोग और डुप्लिकेट को निकालने के लिए किया select distinct c1.cname as name from salespeople s1, customers c1 where c1.city = any(select city from salespeople) union all select distinct s1.sname from salespeople s1 , customers c1 where s1.city = any(select city from customers) --join मैंने एक कॉलम में आउटपुट प्राप्त करने के लिए यूनियन का उपयोग किया। select s1.sname as name from salespeople s1, customers c1 where s1.city=c1.city union select c1.cname as name from salespeople s1, customers c1 where s1.city=c1.city output उत्पादन In []: NAME Liu clements Hoffman Cisneros Serres Peel In []: # joins NAME Cisneros Hoffman Liu Peel Serres clements In []: --3-Find those salesperson name who belong to the city of their customer --in this do we have to refer orders or not , i have done -- (do it both with sub-query and join --join select distinct s1.snum, s1.sname from salespeople s1, customers c1 where s1.snum=c1.snum and s1.city=c1.city -- if we have customers and salepeople as related in orders // ग्राहक, आदेश और salespeople संबंधित हैं SELECT distinct orders.snum FROM orders JOIN salespeople ON orders.snum = salespeople.snum JOIN customers ON orders.cnum=customers.cnum where salespeople.city=customers.city; --subquery // सबक्वेरी select * from salespeople s1 where exists (select c1.snum from customers c1 where c1.city=s1.city); -- this is correlated but how to do with subquery simply // यह सहसंबद्ध है लेकिन सरलता से कैसे किया जाए -- if we have customers and salepeople as related in orders then -- correct or not but it is giving right output यह सही आउटपुट दे रहा है select distinct s1.snum from salespeople s1 where s1.city in (select c1.city from customers c1 where c1.cnum in (select o1.cnum from orders o1 where o1.snum=s1.snum) output उत्पादन In []: SNUM SNAME Serres Peel In []: SNUM SNUM SNAME CITY COMM Peel London Serres Sanjose In []: SNUM In []: -----q4 --4-Find those salesperson name who belong to the city of their customer --(do it with co-related sub-query) -- same as above ऊपर की तरह In []: -----q5 --5-Find those salesperson name, customer name where salesperson is --assigned/not assigned to any customer select s1.sname , c1.cname from salespeople s1 right outer join customers c1 on s1.snum =c1.snum output उत्पादन In []: SNAME CNAME Peel Hoffman Peel clements Serres Liu Serres Grass Motika Pereira Rifkin Cisneros Axelrod Giovanni clements In []: | _____q6 --G-Find those customer name who is not assigned to any salesperson INSERT INTO Customers VALUES (2012, 'clements', 'London', null) select cname from customers where snum is null output उत्पादन In []: clements In []: --7-Find the highest order of each salesperson select max(amt), snum from orders group by snum output उत्पादन In []: MAX (AMT) SNUM -Find the names of salesperson and their highest order select max(o1.amt), (select s2.sname from salespeople s2 where s2.snum=o1.snum) from orders o1 join salespeople s1 on o1.snum=s1.snum group by o1.snum ; --this is correct select s1.sname, (select max(o1.amt) from orders o1 group by o1.snum having o1.snum=s1.snum) from salespeople s1; -- this is also correct //यह भी सही है output उत्पादन In []: Peel Serres Motika Rifkin Rafale Axe chapsi In []: q9 --9-Find those orders of salesperson which **is** more than his average orders select amt from orders where exists (select amt from orders group by snum having amt>avg(amt)); --i cannot use this beacause amt > avg(amt) not a group by expression select o1.amt from orders o1 where o1.amt> (select avg(o2.amt) from orders o2 group by o2.snum having o2.snum=o1.snum); --this is correct यह सही है output उत्पादन In []: AMT In []: | ----q10 --10-List those salesperson who has more than two customers. -- (use all 3 methods) -- join -- joins + coorelated subqueries select count(c1.snum), (select s1.sname from salespeople s1 where s1.snum = c1.snum) from customers c1 inner join salespeople s1 on s1.snum=c1.snum group by c1.snum having count(c1.snum)>1; --correct -- purely joins but not working --ज्वाइन कर लिया है लेकिन काम नहीं कर रहा है यह क्वेरी हमारे साथ धोखा कर रही है select s1.sname from customers c1 inner join salespeople s1 on s1.snum=c1.snum group by c1.snum having count(c1.snum)>1; --यह काम क्यों नहीं कर रही है in this dont use s1.sname , use s1.snum -- select s1.snum from customers c1 inner join salespeople s1 on s1.snum=c1.snum group by c1.snum having count(c1.snum)>2; -- purely joins यह शुद्ध जुड़ाव है select s1.sname, count(s1.sname) from salespeople s1 inner join customers c1 on s1.snum=c1.snum group by s1.sname having count(s1.sname)>1; --correct -- subquery सबक्वेरी select * from salespeople where snum in (select snum from customers group by snum having count(snum)>1); --coorelated subquery सहसंबद्घ सबक्वेरी $select\ count(c1.snum)$, ($select\ s1.sname\ from\ salespeople\ s1\ where\ s1.snum\ =\ c1.snum$) from customers c1 group by ($snum\)$ having count(c1.snum)> output उत्पादन In []: SNUM 2 Peel 2 Serres