CREATE DATABASE SALES_COMPANY;

USE SALES_COMPANY;

CREATE TABLE SALESMAN (Salesman_id INT PRIMARY KEY AUTO_INCREMENT, Name VARCHAR(255), City VARCHAR(255), Commission FLOAT);

CREATE TABLE CUSTOMER (Customer_id INT PRIMARY KEY AUTO_INCREMENT, Cust_Name VARCHAR(255), City VARCHAR(255), Grade INT, Salesman_id INT, FOREIGN KEY(Salesman_id) REFERENCES SALESMAN(Salesman_id) ON DELETE CASCADE);

CREATE TABLE ORDERS (Ord_No INT, Purchase_Amt INT, Ord_Date DATE, Customer_id INT, Salesman_id INT, FOREIGN KEY(Salesman_id) REFERENCES SALESMAN(Salesman_id) ON DELETE CASCADE, FOREIGN KEY(Customer_id) REFERENCES CUSTOMER(Customer_id) ON DELETE CASCADE);

INSERT INTO SALESMAN (Salesman_id, Name, City, Commission) VALUES (1, 'Rahul', 'Mumbai', 0.2), (2, 'Amit', 'Delhi', 0.15), (3, 'Sachin', 'Kolkata', 0.18), (4, 'Vijay', 'Chennai', 0.2), (5, 'Rajesh', 'Bangalore', 0.17), (6, 'Arun', 'Hyderabad', 0.16), (7, 'Gopal', 'Pune', 0.19), (8, 'Neha', 'Ahmedabad', 0.21), (9, 'Priya', 'Surat', 0.2), (10, 'Anjali', 'Jaipur', 0.18), (11, 'Aryan', 'Lucknow', 0.19), (12, 'Akash', 'Kanpur', 0.15), (13, 'Sonia', 'Nagpur', 0.16), (14, 'Ayesha', 'Indore', 0.17), (15, 'Rohit', 'Thane', 0.2), (16, 'Aarav', 'Bhopal', 0.19), (17, 'Samarth', 'Patna', 0.18), (18, 'Nikita', 'Vadodara', 0.16), (19, 'Vivek', 'Ludhiana', 0.21), (20, 'Mohan', 'Agra', 0.2), (1000, 'Kumar', 'Bangalore', 0.18);

INSERT INTO CUSTOMER (Customer_id, Cust_Name, City, Grade, Salesman_id) VALUES (1, 'Aman', 'Mumbai', 5, 1), (2, 'Neha', 'Delhi', 4, 2), (3, 'Sujata', 'Kolkata', 3, 3), (4, 'Anita', 'Chennai', 2, 4), (5, 'Rohit', 'Bangalore', 4, 5), (6, 'Kunal', 'Hyderabad', 5, 6), (7, 'Meena', 'Pune', 2, 7), (8, 'Sanjay', 'Ahmedabad', 3, 8), (9, 'Anita', 'Surat', 4, 9), (10, 'Amar', 'Jaipur', 5, 10), (11, 'Raj', 'Lucknow', 3, 11), (12, 'Riya', 'Kanpur', 2, 12), (13, 'Asha', 'Nagpur', 4, 13), (14, 'Kiran', 'Indore', 5, 14), (15, 'Amit', 'Thane', 3, 15), (16, 'Sneha', 'Bhopal', 2, 16), (17, 'Mohan', 'Patna', 4, 17), (18, 'Nisha', 'Vadodara', 5, 18), (19, 'Aarti', 'Ludhiana', 3, 19), (20, 'Kartik', 'Agra', 4, 20), (21, 'Deepak', 'Bangalore', 5, 1000);

INSERT INTO ORDERS (Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id) VALUES (101, 500, '2023-10-01', 1, 1), (102, 300, '2023-10-01', 2, 2), (103, 200, '2023-10-02', 3, 3), (104, 150, '2023-10-02', 4, 4), (105, 450, '2023-10-03', 5, 5), (106, 600, '2023-10-03', 6, 6), (107, 100, '2023-10-04', 7, 7), (108, 350, '2023-10-04', 8, 8), (109, 400, '2023-10-05', 9, 9), (110, 250, '2023-10-05', 10, 10), (111, 550, '2023-10-06', 11, 11), (112, 200, '2023-10-06', 12, 12), (113, 300, '2023-10-07', 13, 13), (114, 150, '2023-10-07', 14, 14), (115, 450, '2023-10-08', 15, 15), (116, 600, '2023-10-08', 16, 16), (117, 100, '2023-10-09', 17, 17), (118, 350, '2023-10-09', 18, 18), (119, 400, '2023-10-10', 19, 19), (120, 250, '2023-10-10', 20,

20), (121, 300, '2023-10-11', 21, 1000);

SELECT COUNT(*) FROM CUSTOMER WHERE Grade > (SELECT AVG(Grade) FROM CUSTOMER WHERE City = 'Bangalore');

SELECT Name, COUNT(Customer_id) as NumberOfCustomers FROM SALESMAN s JOIN CUSTOMER c ON s.Salesman_id = c.Salesman_id GROUP BY s.Salesman_id, Name HAVING COUNT(Customer_id) > 1;

SELECT Name, 'Has Customers' as Info FROM SALESMAN WHERE Salesman_id IN (SELECT Salesman_id FROM CUSTOMER) UNION SELECT Name, 'No Customers' as Info FROM SALESMAN WHERE Salesman_id NOT IN (SELECT Salesman_id FROM CUSTOMER);

CREATE VIEW MaxOrderView AS SELECT s.Name as Salesman_Name, o.Ord_Date, MAX(o.Purchase_Amt) as Max_Purchase_Amt FROM ORDERS o JOIN SALESMAN s ON o.Salesman_id = s.Salesman_id GROUP BY s.Name, o.Ord_Date;

SELECT * FROM MaxOrderView;

DELETE FROM ORDERS WHERE Salesman_id = 1000; DELETE FROM CUSTOMER WHERE Salesman_id = 1000; DELETE FROM SALESMAN WHERE Salesman_id = 1000;

SELECT * FROM SALESMAN s WHERE Salesman_id = 1000;

```sql
                    (105, 450, '2023-10-03', 5, 5),
                    (106, 600, '2023-10-03', 6, 6),
                    (107, 100, '2023-10-04', 7, 7),
                    (108, 350, '2023-10-04', 8, 8),
                    (109, 400, '2023-10-05', 9, 9),
                    (110, 250, '2023-10-05', 10, 10),
                    (111, 550, '2023-10-06', 11, 11),
                    (112, 200, '2023-10-06', 12, 12),
                    (113, 300, '2023-10-07', 13, 13),
                    (114, 150, '2023-10-07', 14, 14),
                    (115, 450, '2023-10-08', 15, 15),
                    (116, 600, '2023-10-08', 16, 16),
                    (117, 100, '2023-10-09', 17, 17),
                    (118, 350, '2023-10-09', 18, 18),
                    (119, 400, '2023-10-10', 19, 19),
                    (120, 250, '2023-10-10', 20, 20),
                    (121, 300, '2023-10-11', 21, 1000);

SELECT COUNT(*)
FROM CUSTOMER
WHERE Grade > (SELECT AVG(Grade) FROM CUSTOMER WHERE City = 'Bangalore');
```

Results 1

SELECT COUNT(*) FROM CUSTOMER WHERE... | Enter a SQL expression to filter results (use Ctrl+Space)

	COUNT(*)
1	6

1 row(s) fetched - 2ms, on 2023-10-19 at 09:32:47

```
         (111, 550, '2023-10-06', 11, 11),
         (112, 200, '2023-10-06', 12, 12),
         (113, 300, '2023-10-07', 13, 13),
         (114, 150, '2023-10-07', 14, 14),
         (115, 450, '2023-10-08', 15, 15),
         (116, 600, '2023-10-08', 16, 16),
         (117, 100, '2023-10-09', 17, 17),
         (118, 350, '2023-10-09', 18, 18),
         (119, 400, '2023-10-10', 19, 19),
         (120, 250, '2023-10-10', 20, 20),
         (121, 300, '2023-10-11', 21, 1000);

SELECT COUNT(*)
   FROM CUSTOMER
   WHERE Grade > (SELECT AVG(Grade) FROM CUSTOMER WHERE City = 'Bangalore');

SELECT Name, COUNT(Customer_id) as NumberOfCustomers
   FROM SALESMAN s
   JOIN CUSTOMER c ON s.Salesman_id = c.Salesman_id
   GROUP BY s.Salesman_id, Name
   HAVING COUNT(Customer_id) > 1;
```

SELECT Name, COUNT(Customer_id) as Numb

Name	NumberOfCustomers

DBeaver 23.2.2 - <localhost> Script

File Edit Navigate Search SQL Editor Database Window Help

SQL | Commit Rollback | Auto | localhost SALES_COMPANY

Database Navigator | Projects

*<localhost> Script | SALES_COMPANY | CUSTOMER | ORDERS | SALESMAN

Enter a part of object name here

- localhost - localhost:3306
  - Databases
    - COLLEGE_EXAMS
    - SALES_COMPANY
    - library
    - movies
    - sys
  - Users
  - Administer
  - System Info

```sql
                    (120, 250, '2023-10-10', 20, 20),
                    (121, 300, '2023-10-11', 21, 1000);

SELECT COUNT(*)
FROM CUSTOMER
WHERE Grade > (SELECT AVG(Grade) FROM CUSTOMER WHERE City = 'Bangalore');

SELECT Name, COUNT(Customer_id) as NumberOfCustomers
FROM SALESMAN s
JOIN CUSTOMER c ON s.Salesman_id = c.Salesman_id
GROUP BY s.Salesman_id, Name
HAVING COUNT(Customer_id) > 1;

SELECT Name, 'Has Customers' as Info
FROM SALESMAN
WHERE Salesman_id IN (SELECT Salesman_id FROM CUSTOMER)
UNION
SELECT Name, 'No Customers' as Info
FROM SALESMAN
WHERE Salesman_id NOT IN (SELECT Salesman_id FROM CUSTOMER);
```

Results 1

SELECT Name, 'Has Customers' as Info FROM | Enter a SQL expression to filter results (use Ctrl+Space)

	Name	Info
1	Rahul	Has Customers
2	Amit	Has Customers
3	Sachin	Has Customers
4	Vijay	Has Customers
5	Rajesh	Has Customers
6	Arun	Has Customers
7	Gopal	Has Customers
8	Neha	Has Customers
9	Priya	Has Customers
10	Anjali	Has Customers
11	Aryan	Has Customers
12	Akash	Has Customers
13	Sonia	Has Customers
14	Ayesha	Has Customers
15	Rohit	Has Customers
16	Aarav	Has Customers
17	Samarth	Has Customers
18	Nikita	Has Customers
19	Vivek	Has Customers
20	Mohan	Has Customers
21	Kumar	Has Customers

Project - General

Name | DataSource

- Bookmarks
- Diagrams
- Scripts

Refresh | Save | Cancel | Export data | 200 | 21 | 21 row(s) fetched - 2ms, on 2023-10-19 at 09:33:52

IST en_IN Writable Smart Insert 99 : 7 : 3370 Sel: 0 | 0

```sql
        JOIN CUSTOMER c ON s.Salesman_id = c.Salesman_id
        GROUP BY s.Salesman_id, Name
        HAVING COUNT(Customer_id) > 1;

    SELECT Name, 'Has Customers' as Info
    FROM SALESMAN
    WHERE Salesman_id IN (SELECT Salesman_id FROM CUSTOMER)
    UNION
    SELECT Name, 'No Customers' as Info
    FROM SALESMAN
    WHERE Salesman_id NOT IN (SELECT Salesman_id FROM CUSTOMER);

    CREATE VIEW MaxOrderView AS
    SELECT s.Name as Salesman_Name, o.Ord_Date, MAX(o.Purchase_Amt) as Max_Purchase_Amt
    FROM ORDERS o
    JOIN SALESMAN s ON o.Salesman_id = s.Salesman_id
    GROUP BY s.Name, o.Ord_Date;

    SELECT * FROM MaxOrderView;
```

SELECT * FROM MaxOrderView | Enter a SQL expression to filter results (use Ctrl+Space)

	Salesman_Name	Ord_Date	Max_Purchase_Amt
1	Aarav	2023-10-08	600
2	Akash	2023-10-06	200
3	Amit	2023-10-01	300
4	Anjali	2023-10-05	250
5	Arun	2023-10-03	600
6	Aryan	2023-10-06	550
7	Ayesha	2023-10-07	150
8	Gopal	2023-10-04	100
9	Kumar	2023-10-11	300
10	Mohan	2023-10-10	250
11	Neha	2023-10-04	350
12	Nikita	2023-10-09	350
13	Priya	2023-10-05	400
14	Rahul	2023-10-01	500
15	Rajesh	2023-10-03	450
16	Rohit	2023-10-08	450
17	Sachin	2023-10-02	200
18	Samarth	2023-10-09	100
19	Sonia	2023-10-07	300
20	Vijay	2023-10-02	150
21	Vivek	2023-10-10	400

21 row(s) fetched - 4ms (2ms fetch), on 2023-10-19 at 09:34:45

```sql
FROM SALESMAN
WHERE Salesman_id IN (SELECT Salesman_id FROM CUSTOMER)
UNION
SELECT Name, 'No Customers' as Info
FROM SALESMAN
WHERE Salesman_id NOT IN (SELECT Salesman_id FROM CUSTOMER);

CREATE VIEW MaxOrderView AS
SELECT s.Name as Salesman_Name, o.Ord_Date, MAX(o.Purchase_Amt) as Max_Purchase_Amt
FROM ORDERS o
JOIN SALESMAN s ON o.Salesman_id = s.Salesman_id
GROUP BY s.Name, o.Ord_Date;

SELECT * FROM MaxOrderView;

DELETE FROM ORDERS WHERE Salesman_id = 1000;
DELETE FROM CUSTOMER WHERE Salesman_id = 1000;
DELETE FROM SALESMAN WHERE Salesman_id = 1000;

SELECT * FROM SALESMAN s WHERE Salesman_id = 1000;
```