



Aaditiya Tyagi

2200290120001

CS5A

DBMS Lab 8 :



☒ Autocommit Rows   Save Run

```
CREATE TABLE Customers (  
    CustomerID INT PRIMARY KEY,  
    Name VARCHAR(100) NOT NULL,  
    City VARCHAR(100)  
);
```

Results Explain Describe Saved SQL History

Table created.

0.08 seconds



☒ Autocommit Rows   Save Run

```
CREATE TABLE Orders (  
    OrderID INT PRIMARY KEY,  
    CustomerID INT,  
    OrderDate DATE,  
    TotalAmount DECIMAL(10, 2),  
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)  
);
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds



☒ Autocommit Rows   Save Run

```
CREATE TABLE Products (  
    ProductID INT PRIMARY KEY,  
    Name VARCHAR(100) NOT NULL,  
    Price DECIMAL(10, 2) NOT NULL  
);
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

☒ Autocommit Rows   Save Run



```
CREATE TABLE OrderDetails (  
    OrderDetailID INT PRIMARY KEY,  
    OrderID INT,  
    ProductID INT,  
    Quantity INT,  
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),  
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID)  
);
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

1.

☒ Autocommit Rows  



```
SELECT *
FROM Customers
WHERE CustomerID IN (SELECT CustomerID FROM Orders);
```

Results Explain Describe Saved SQL History

CUSTOMERID	NAME	CITY
1	Alice	New York
2	Bob	Los Angeles
3	Charlie	Chicago
4	Diana	Houston

4 rows returned in 0.01 seconds [Download](#)

2.

☒ Autocommit Rows  



```
SELECT o.OrderID,
       o.TotalAmount,
       (SELECT Name FROM Customers WHERE Customers.CustomerID = o.CustomerID) AS CustomerName
FROM Orders o;
```

Results Explain Describe Saved SQL History

ORDERID	TOTALAMOUNT	CUSTOMERNAME
1	100	Alice
2	150	Bob
3	200	Charlie
4	250	Alice
5	300	Diana
6	180	Bob

6 rows returned in 0.00 seconds [Download](#)

3.



☒ Autocommit Rows   Save Run

```
SELECT c.*
FROM Customers c
WHERE (SELECT COUNT(*) FROM Orders o WHERE o.CustomerID = c.CustomerID) > 3;
```

Results Explain Describe Saved SQL History

no data found

4.

☒ Autocommit Rows   Save Run



```
SELECT *
FROM Customers c
WHERE EXISTS (
  SELECT 1
  FROM Orders o
  JOIN OrderDetails od ON o.OrderID = od.OrderID
  JOIN Products p ON od.ProductID = p.ProductID
  WHERE c.CustomerID = o.CustomerID AND p.Price > 50
);
```

Results Explain Describe Saved SQL History

CUSTOMERID	NAME	CITY
1	Alice	New York
2	Bob	Los Angeles
3	Charlie	Chicago
4	Diana	Houston

4 rows returned in 0.02 seconds [Download](#)

5.

☒ Autocommit Rows   Save Run



```
SELECT *  
FROM Products  
WHERE Price = (SELECT MAX(Price) FROM Products);  
|
```

Results Explain Describe Saved SQL History

PRODUCTID	NAME	PRICE
1	Laptop	800

1 rows returned in 0.01 seconds [Download](#)

6.

☒ Autocommit Rows   Save Run



```
SELECT *  
FROM Customers  
WHERE CustomerID NOT IN (SELECT CustomerID FROM Orders);  
|
```

Results Explain Describe Saved SQL History

CUSTOMERID	NAME	CITY
5	Eve	Miami

1 rows returned in 0.01 seconds [Download](#)

7.

☒ Autocommit Rows   Save Run



```
SELECT *  
FROM Products  
WHERE Price < ALL (SELECT Price FROM Products WHERE ProductID != Products.ProductID);
```

Results [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

PRODUCTID	NAME	PRICE
1	Laptop	800
2	Smartphone	500
3	Tablet	300
5	External Drive	150
4	Headphones	100

5 rows returned in 0.01 seconds [Download](#)

8.



☒ Autocommit Rows   Save Run

```
SELECT *  
FROM Products  
WHERE Price > ANY (SELECT Price FROM Products WHERE Price < 20);
```

Results [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

no data found

9.

☒ Autocommit Rows   Save Run



```
SELECT c.CustomerID,
       c.Name,
       COALESCE(t.TotalOrders, 0) AS TotalOrders,
       COALESCE(t.TotalRevenue, 0) AS TotalRevenue
FROM Customers c
LEFT JOIN (
  SELECT CustomerID, COUNT(*) AS TotalOrders, SUM(TotalAmount) AS TotalRevenue
  FROM Orders
  GROUP BY CustomerID
) t ON c.CustomerID = t.CustomerID;
```

Results Explain Describe Saved SQL History

CUSTOMERID	NAME	TOTALORDERS	TOTALREVENUE
1	Alice	2	350
2	Bob	2	330
4	Diana	1	300
3	Charlie	1	200
5	Eve	0	0

5 rows returned in 0.00 seconds [Download](#)

10.



☒ Autocommit Rows   Save Run

```
SELECT p.ProductID,
       p.Name,
       p.Price,
       (SELECT COUNT(*) FROM Products p2 WHERE p2.Price > p.Price) + 1 AS Rank
FROM Products p;
```

Results Explain Describe Saved SQL History

PRODUCTID	NAME	PRICE	RANK
1	Laptop	800	1
2	Smartphone	500	2
3	Tablet	300	3
4	Headphones	100	5
5	External Drive	150	4

11.



☒ Autocommit Rows   Save Run

```
SELECT *
FROM Customers c
WHERE (SELECT SUM(o.TotalAmount)
       FROM Orders o
       WHERE o.CustomerID = c.CustomerID) > 500;
```

Results Explain Describe Saved SQL History

no data found

12.

☒ Autocommit Rows   Save Run



```
SELECT c.CustomerID,
       c.Name,
       (SELECT MAX(OrderDate)
        FROM Orders o
        WHERE o.CustomerID = c.CustomerID) AS MostRecentOrder
FROM Customers c;
```

Results Explain Describe Saved SQL History

CUSTOMERID	NAME	MOSTRECENTORDER
1	Alice	04/12/2023
2	Bob	06/17/2023
3	Charlie	03/05/2023
4	Diana	05/25/2023
5	Eve	-



5 rows returned in 0.01 seconds [Download](#)

13.

☒ Autocommit Rows   Save Run

```
SELECT c.CustomerID,
       c.Name,
       (SELECT SUM(o.TotalAmount) FROM Orders o WHERE o.CustomerID = c.CustomerID) AS TotalSpent
FROM Customers c
ORDER BY TotalSpent DESC
LIMIT 3;
```

14.



☒ Autocommit Rows 10   Save Run

```
SELECT *
FROM Products
WHERE ProductID NOT IN (SELECT ProductID FROM OrderDetails);
```

Results Explain Describe Saved SQL History

no data found

15.

☒ Autocommit Rows 10   Save Run

```
SELECT DISTINCT c1.CustomerID AS Customer1,
                c2.CustomerID AS Customer2,
                o1.OrderDate
FROM Orders o1
JOIN Orders o2 ON o1.OrderDate = o2.OrderDate AND o1.CustomerID != o2.CustomerID
JOIN Customers c1 ON c1.CustomerID = o1.CustomerID
JOIN Customers c2 ON c2.CustomerID = o2.CustomerID;
```

Results Explain Describe Saved SQL History

no data found