StudentId:CT_CSI_SQ_4948

Student Name – Sanika Popat Hingalkar

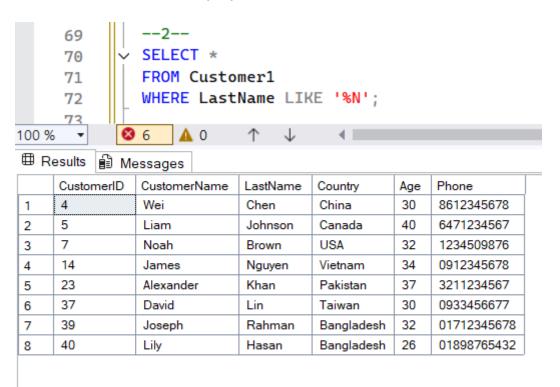**Domain : SQL**

Weekly Assignment 1

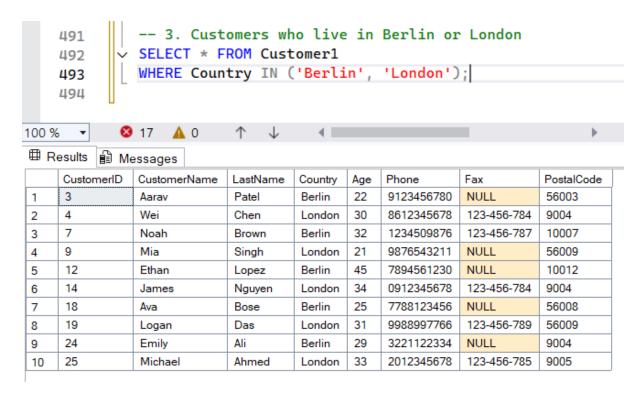1. **List of all customers**

```
466    select * from Customer1;
467
```

	CustomerID	CustomerName	LastName	Country	Age	Phone	Fax	PostalCode
1	1	John	Doe	USA	28	1234567890	123-456-781	10001
2	2	Emma	Smith	UK	35	9876543210	123-456-782	EC1A2
3	3	Aarav	Patel	India	22	9123456780	NULL	56003
4	4	Wei	Chen	China	30	8612345678	123-456-784	9004
5	5	Liam	Johnson	Canada	40	6471234567	123-456-785	9005
6	6	Olivia	Williams	Australia	29	0412345678	NULL	9006
7	7	Noah	Brown	USA	32	1234509876	123-456-787	10007
8	8	Sophia	Taylor	UK	27	4471234567	123-456-788	EC1A8
9	9	Mia	Singh	India	21	9876543211	NULL	56009
10	10	Lucas	Martinez	Spain	33	612345678	123-456-780	9000
11	11	Amelia	Garcia	Mexico	26	5512345678	123-456-781	9001
12	12	Ethan	Lopez	USA	45	7894561230	NULL	10012
13	13	Isabella	Lee	South Korea	24	01012345678	123-456-783	9003
14	14	James	Nguyen	Vietnam	34	0912345678	123-456-784	9004
15	15	Elijah	Kumar	India	38	9988776655	NULL	56005
16	16	Charlotte	Verma	India	23	8899776655	123-456-786	56006
17	17	Benjamin	Gupta	India	36	7788990011	123-456-787	56007
18	18	Ava	Bose	India	25	7788123456	NULL	56008
19	19	Logan	Das	India	31	9988997766	123-456-789	56009
20	20	Harper	Mishra	India	22	9090909090	123-456-780	56000
21	21	William	Sharma	India	28	9876543000	NULL	56001
22	22	Evelyn	Reddy	India	27	9441234567	123-456-782	56002
23	23	Alexander	Khan	Pakistan	37	3211234567	123-456-783	9003
24	24	Emily	Ali	Pakistan	29	3221122334	NULL	9004
25	25	Michael	Ahmed	Egypt	33	2012345678	123-456-785	9005
26	26	Abigail	Ibrahim	Nigeria	39	08012345678	123-456-786	9006
27	27	Daniel	Okafor	Nigeria	26	08123456789	NULL	9007
28	28	Ella	Mwangi	Kenya	31	0712345678	123-456-788	9008
29	29	Matthew	Ouma	Kenya	24	0723456789	123-456-789	9009
30	30	Chloe	Kim	South Korea	23	01056781234	NULL	9000
31	31	Jackson	Yamada	Japan	35	08012345678	123-456-781	9001
32	32	Avery	Tanaka	Japan	30	07098765432	123-456-782	9002
33	33	Sebastian	Sato	Japan	34	09011223344	NULL	9003
34	34	Scarlett	Li	China	25	8610987654	123-456-784	9004

35	35	Henry	Zhao	China	28	8612344321	123-456-785	9005
36	36	Grace	Huang	Taiwan	29	0911122233	NULL	9006
37	37	David	Lin	Taiwan	30	0933456677	123-456-787	9007
38	38	Victoria	Wang	Taiwan	27	0987654321	123-456-788	9008
39	39	Joseph	Rahman	Bangladesh	32	01712345678	NULL	9009
40	40	Lily	Hasan	Bangladesh	26	01898765432	123-456-780	9000
41	41	Samuel	Perera	Sri Lanka	35	0771234567	123-456-781	9001
42	42	Hannah	Fernando	Sri Lanka	31	0719876543	NULL	9002
43	43	Owen	Rodriguez	Argentina	33	5412345678	123-456-783	9003
44	44	Aria	Gomez	Argentina	28	5423456789	123-456-784	9004
45	45	Gabriel	Silva	Brazil	29	5512345678	NULL	9005
46	46	Zoe	Souza	Brazil	25	5598765432	123-456-786	9006
47	47	Jayden	Müller	Germany	36	491234567...	123-456-787	10117
48	48	Penelope	Schmidt	Germany	34	492345678...	NULL	10118
49	49	Levi	Dubois	France	27	33123456789	123-456-789	7509
50	50	Nora	Leroy	France	30	33987654321	123-456-780	7500

2. **List of all customers where company name ends in N**

```
--2--
SELECT *
FROM Customer1
WHERE LastName LIKE '%N';
```

100 %   ❌ 6   ⚠ 0   ↑ ↓ ◄

⊞ Results 📄 Messages

	CustomerID	CustomerName	LastName	Country	Age	Phone
1	4	Wei	Chen	China	30	8612345678
2	5	Liam	Johnson	Canada	40	6471234567
3	7	Noah	Brown	USA	32	1234509876
4	14	James	Nguyen	Vietnam	34	0912345678
5	23	Alexander	Khan	Pakistan	37	3211234567
6	37	David	Lin	Taiwan	30	0933456677
7	39	Joseph	Rahman	Bangladesh	32	01712345678
8	40	Lily	Hasan	Bangladesh	26	01898765432

3. List of all customers who live in Berlin or London

```
491        -- 3. Customers who live in Berlin or London
492      ∨ SELECT * FROM Customer1
493        WHERE Country IN ('Berlin', 'London');
494
```

100 % ▼   ⊗ 17   ⚠ 0   ↑ ↓   ◄

Results | Messages

	CustomerID	CustomerName	LastName	Country	Age	Phone	Fax	PostalCode
1	3	Aarav	Patel	Berlin	22	9123456780	NULL	56003
2	4	Wei	Chen	London	30	8612345678	123-456-784	9004
3	7	Noah	Brown	Berlin	32	1234509876	123-456-787	10007
4	9	Mia	Singh	London	21	9876543211	NULL	56009
5	12	Ethan	Lopez	Berlin	45	7894561230	NULL	10012
6	14	James	Nguyen	London	34	0912345678	123-456-784	9004
7	18	Ava	Bose	Berlin	25	7788123456	NULL	56008
8	19	Logan	Das	London	31	9988997766	123-456-789	56009
9	24	Emily	Ali	Berlin	29	3221122334	NULL	9004
10	25	Michael	Ahmed	London	33	2012345678	123-456-785	9005

4. List of all customers who live in UK or USA

```
79        --4--
80      ∨ SELECT *
81        FROM Customer1
82        WHERE Country IN ('UK', 'USA');
83
```

100 % ▼   ⊗ 2   ⚠ 0   ↑ ↓   ◄

Results | Messages

	CustomerID	CustomerName	LastName	Country	Age	Phone
1	1	John	Doe	USA	28	1234567890
2	2	Emma	Smith	UK	35	9876543210
3	7	Noah	Brown	USA	32	1234509876
4	8	Sophia	Taylor	UK	27	4471234567
5	12	Ethan	Lopez	USA	45	7894561230

5. List of all products sorted by product name

```
238
239        -- 5. Products sorted by name
240   ✓    SELECT * FROM Product
241        ORDER BY ProductName;
```

	ProductID	ProductName	Category	UnitsInStock	UnitsOnOrder	Discontinued	SupplierID
1	17	Alice Mutton	Meat/Poultry	0	0	1	7
2	3	Aniseed Syrup	Condiments	13	70	0	1
3	18	Carnarvon Tigers	Seafood	42	0	0	7
4	1	Chai	Beverages	39	0	0	1
5	2	Chang	Beverages	17	40	0	1
6	4	Chef Anton's Cajun Seasoning	Condiments	53	0	0	2
7	5	Chef Anton's Gumbo Mix	Condiments	0	0	1	2
8	30	Côte de Blaye	Beverages	17	0	0	11
9	25	Geitost	Dairy Products	15	0	0	10
10	15	Genen Shouyu	Condiments	39	0	0	6
11	23	Gorgonzola Telino	Dairy Products	20	15	0	9
12	6	Grandma's Boysenberry Spread	Condiments	120	0	0	2
13	29	Gravad lax	Seafood	11	0	0	11
14	10	Ikura	Seafood	31	0	0	4
15	28	Inlagd Sill	Seafood	112	0	0	11
16	13	Konbu	Seafood	24	0	0	6
17	24	Mascarpone Fabioli	Dairy Products	32	0	0	9
18	9	Mishi Kobe Niku	Meat/Poultry	29	0	1	4
19	22	Nord-Ost Matjeshering	Seafood	10	0	0	9
20	8	Northwoods Cranberry Sauce	Condiments	6	0	0	3
21	16	Pavlova	Confections	29	0	0	7
22	11	Queso Cabrales	Dairy Products	22	30	0	5
23	12	Queso Manchego La Pastora	Dairy Products	86	0	0	5
24	26	Sasquatch Ale	Beverages	125	0	0	10
25	20	Sir Rodney's Marmalade	Confections	40	5	0	8
26	21	Sir Rodney's Scones	Confections	3	0	0	8
27	27	Steeleye Stout	Beverages	20	0	0	10
28	19	Teatime Chocolate Biscuits	Confections	25	10	0	8
29	14	Tofu	Produce	35	0	0	6
30	7	Uncle Bob's Organic Dried Pe...	Produce	15	10	0	3

6. List of all products where product name starts with A

```
243        -- 6. Products starting with 'A'
244        SELECT * FROM Product
245        WHERE ProductName LIKE 'A%';
246
```

	ProductID	ProductName	Category	UnitsInStock	UnitsOnOrder	Discontinued	SupplierID
1	3	Aniseed Syrup	Condiments	13	70	0	1
2	17	Alice Mutton	Meat/Poultry	0	0	1	7

7. List of customers who ever placed an order

```sql
-- 7. Customers who ever placed an order
SELECT DISTINCT C.*
FROM Customer1 C
JOIN Orders O ON C.CustomerID = O.CustomerID;
```

100 %   ❌ 28   ⚠ 0   ↑   ↓   ◀

Results | Messages

	CustomerID	CustomerName	LastName	Country	Age	Phone
1	1	John	Doe	USA	28	1234567890
2	2	Emma	Smith	UK	35	9876543210
3	3	Aarav	Patel	India	22	9123456780
4	4	Wei	Chen	China	30	8612345678
5	5	Liam	Johnson	Canada	40	6471234567
6	6	Olivia	Williams	Australia	29	0412345678
7	8	Sophia	Taylor	UK	27	4471234567
8	9	Mia	Singh	India	21	9876543211
9	10	Lucas	Martinez	Spain	33	612345678
10	12	Ethan	Lopez	USA	45	7894561230
11	14	James	Nguyen	Vietnam	34	0912345678
12	15	Elijah	Kumar	India	38	9988776655
13	17	Benjamin	Gupta	India	36	7788990011
14	18	Ava	Bose	India	25	7788123456
15	21	William	Sharma	India	28	9876543000
16	22	Evelyn	Reddy	India	27	9441234567
17	23	Alexander	Khan	Pakistan	37	3211234567
18	25	Michael	Ahmed	Egypt	33	2012345678
19	27	Daniel	Okafor	Nigeria	26	08123456789
20	30	Chloe	Kim	South Korea	23	01056781234
21	32	Avery	Tanaka	Japan	30	07098765432
22	35	Henry	Zhao	China	28	8612344321
23	36	Grace	Huang	Taiwan	29	0911122233
24	38	Victoria	Wang	Taiwan	27	0987654321
25	40	Lily	Hasan	Bangladesh	26	01898765432
26	41	Samuel	Perera	Sri Lanka	35	0771234567
27	43	Owen	Rodriguez	Argentina	33	5412345678
28	45	Gabriel	Silva	Brazil	29	5512345678
29	46	Zoe	Souza	Brazil	25	5598765432
30	50	Nora	Leroy	France	30	33987654321

8. List of customers who live in London and have bought Chai

```
494
495        -- 8. Customers in London who bought Chai
496   ∨    SELECT DISTINCT C.*
497        FROM Customer C
498        JOIN Orders O ON C.CustomerID = O.CustomerID
499        JOIN OrderDetails OD ON O.OrderID = OD.OrderID
500        JOIN Product P ON OD.ProductID = P.ProductID
501        WHERE C.Country = 'London' AND P.ProductName = 'Chai';
```

100 %   ⊗ 21   ⚠ 0   ↑   ↓

⊞ Results ⓘ Messages

	CustomerID	CustomerName	LastName	Country	Age	Phone	Fax
1	9	Mia	Singh	London	21	9876543211	NULL

9. List of customers who never placed an order

```
260        -- 9. Customers who never placed an order
261        SELECT * FROM Customer1
262        WHERE CustomerID NOT IN (SELECT CustomerID FROM Orders);
263
```

100 %   ⊗ 22   ⚠ 0   ↑   ↓

⊞ Results ⓘ Messages

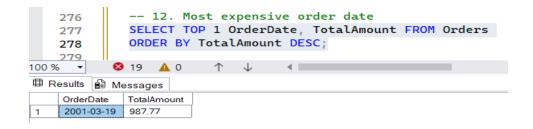|	CustomerID	CustomerName	LastName	Country	Age	Phone
1	7	Noah	Brown	USA	32	1234509876
2	11	Amelia	Garcia	Mexico	26	5512345678
3	13	Isabella	Lee	South Korea	24	01012345678
4	16	Charlotte	Verma	India	23	8899776655
5	19	Logan	Das	India	31	9988997766
6	20	Harper	Mishra	India	22	9090909090
7	24	Emily	Ali	Pakistan	29	3221122334
8	26	Abigail	Ibrahim	Nigeria	39	08012345678
9	28	Ella	Mwangi	Kenya	31	0712345678
10	29	Matthew	Ouma	Kenya	24	0723456789
11	31	Jackson	Yamada	Japan	35	08012345678
12	33	Sebastian	Sato	Japan	34	09011223344
13	34	Scarlett	Li	China	25	8610987654
14	37	David	Lin	Taiwan	30	0933456677
15	39	Joseph	Rahman	Bangladesh	32	01712345678
16	42	Hannah	Fernando	Sri Lanka	31	0719876543
17	44	Aria	Gomez	Argentina	28	5423456789
18	47	Jayden	Müller	Germany	36	491234567890
19	48	Penelope	Schmidt	Germany	34	492345678901
20	49	Levi	Dubois	France	27	33123456789

10. List of customers who ordered Tofu

```
502
503      -- 10. Customers who ordered Tofu
504      SELECT DISTINCT C.*
505      FROM Customer C
506      JOIN Orders O ON C.CustomerID = O.CustomerID
507      JOIN OrderDetails OD ON O.OrderID = OD.OrderID
508      JOIN Product P ON OD.ProductID = P.ProductID
509      WHERE P.ProductName = 'Tofu';
510
```

100 %   ❌ 24   ⚠ 0   ↑   ↓

⊞ Results 📄 Messages

CustomerID	CustomerName	LastName	Country	Age	Phone	Fax

11. Details of first order of the system

```
272      -- 11. Details of first order
273      SELECT TOP 1 * FROM Orders
274      ORDER BY OrderDate ASC;
275
```

100 %   ❌ 19   ⚠ 0   ↑   ↓

⊞ Results 📄 Messages

	OrderID	CustomerID	OrderDate	ShippedCountry	TotalAmount
1	1	10	1995-01-07	Canada	895.60

12. Find the details of the most expensive order date

```
276      -- 12. Most expensive order date
277      SELECT TOP 1 OrderDate, TotalAmount FROM Orders
278      ORDER BY TotalAmount DESC;
279
```

100 %   ❌ 19   ⚠ 0   ↑   ↓

⊞ Results 📄 Messages

	OrderDate	TotalAmount
1	2001-03-19	987.77

13. For each order, get the OrderID and average quantity of items

```sql
-- 13. Each order's average quantity
SELECT OrderID, AVG(Quantity) AS AvgQuantity
FROM OrderDetails
GROUP BY OrderID;
```

	OrderID	AvgQuantity
1	1	6
2	2	2
3	3	5
4	4	1
5	5	5
6	6	9
7	7	6
8	8	3
9	9	1
10	10	7
11	11	5
12	12	4
13	13	1
14	14	4
15	15	3
16	16	5
17	17	8
18	18	4
19	19	4
20	20	2
21	21	4
22	22	3
23	23	1
24	24	8
25	25	1
26	26	6
27	27	4
28	28	2
29	29	5
30	30	4

14. For each order, get the OrderID, min and max quantity

```
285    -- 14. Each order's min and max quantity
286    SELECT OrderID, MIN(Quantity) AS MinQty, MAX(Quantity) AS MaxQty
287    FROM OrderDetails
288    GROUP BY OrderID;
289
```

100 %   ⊗ 19   ⚠ 0   ↑   ↓   ◄   ►   Ln: 2

Results   Messages

	OrderID	MinQty	MaxQty
1	1	6	6
2	2	2	2
3	3	4	6
4	4	1	1
5	5	5	5
6	6	9	9
7	7	6	6
8	8	3	3
9	9	1	1
10	10	7	7
11	11	3	7
12	12	2	6
13	13	1	1
14	14	2	7
15	15	3	3
16	16	5	5
17	17	8	8
18	18	4	4
19	19	2	6
20	20	2	3
21	21	4	4
22	22	3	4
23	23	1	1
24	24	8	8
25	25	1	1
26	26	6	6
27	27	4	4
28	28	1	3
29	29	5	5
30	30	2	7

15. Get a list of all managers and total number of employees who report to them

```
545    --15--
546    SELECT
547        M.ManagerID,
548        M.ManagerName,
549        COUNT(E.EmployeeID) AS TotalReports
550    FROM Manager M
551    JOIN Employee E ON M.ManagerID = E.ReportsTo
552    GROUP BY M.ManagerID, M.ManagerName;
553
```

100 %   ⊗ 24   ⚠ 0   ↑   ↓   ◄

Results   Messages

	ManagerID	ManagerName	TotalReports
1	1	Alex Newton	5
2	2	Brian Clarke	3
3	3	Catherine Ross	3
4	4	Daniela White	3
5	5	Edward Hill	3
6	6	Fiona Brooks	3

16. Get OrderID and total quantity for each order where quantity > 300

```sql
-- 16. Orders where total quantity > 300
SELECT OrderID, SUM(Quantity) AS TotalQty
FROM OrderDetails
GROUP BY OrderID
HAVING SUM(Quantity) > 300;
```

OrderID	TotalQty

17. List of all orders placed on or after 1996/12/31

```sql
-- 17. Orders on or after 1996-12-31
SELECT * FROM Orders
WHERE OrderDate >= '1996-12-31';
```

	OrderID	CustomerID	OrderDate	ShippedCountry	TotalAmount
1	2	41	1998-04-19	Germany	773.16
2	4	25	1999-06-11	UK	638.09
3	5	32	2003-11-27	France	816.87
4	7	4	2001-09-29	France	421.24
5	8	46	1998-04-16	India	325.61
6	9	45	1999-03-20	Germany	706.26
7	10	43	2002-08-05	UK	366.35
8	12	18	1997-07-09	USA	354.95
9	13	6	2000-02-18	France	217.80
10	16	5	1998-09-03	USA	502.35
11	18	17	2004-06-10	Germany	241.00
12	19	3	2002-11-28	France	599.75
13	20	21	2001-01-14	UK	705.12
14	21	30	1996-12-31	India	812.10
15	22	12	1997-03-10	Canada	199.99
16	23	1	2000-04-22	Germany	129.30
17	24	2	2003-05-01	France	710.00
18	25	15	1998-08-17	UK	399.95
19	26	22	1999-09-30	India	298.20
20	27	35	2005-07-07	Germany	650.50
21	29	38	1997-01-20	France	564.45
22	30	40	2001-03-19	USA	987.77

18. List of all orders shipped to Canada

```
303    -- 18. Orders shipped to Canada
304    SELECT * FROM Orders
305    WHERE ShippedCountry = 'Canada';
306
```

	OrderID	CustomerID	OrderDate	ShippedCountry	TotalAmount
1	1	10	1995-01-07	Canada	895.60
2	11	27	1996-11-15	Canada	544.12
3	17	9	1996-01-01	Canada	399.99
4	22	12	1997-03-10	Canada	199.99
5	28	8	1995-10-05	Canada	870.40

19. List of all orders with order total > 200

```
307    -- 19. Orders with total > 200
308    SELECT * FROM Orders
309    WHERE TotalAmount > 200;
310
```

	OrderID	CustomerID	OrderDate	ShippedCountry	TotalAmount
1	1	10	1995-01-07	Canada	895.60
2	2	41	1998-04-19	Germany	773.16
3	3	23	1995-08-31	USA	906.59
4	4	25	1999-06-11	UK	638.09
5	5	32	2003-11-27	France	816.87
6	7	4	2001-09-29	France	421.24
7	8	46	1998-04-16	India	325.61
8	9	45	1999-03-20	Germany	706.26
9	10	43	2002-08-05	UK	366.35
10	11	27	1996-11-15	Canada	544.12
11	12	18	1997-07-09	USA	354.95
12	13	6	2000-02-18	France	217.80
13	14	14	1996-05-12	UK	687.43
14	15	50	1995-12-25	India	432.50
15	16	5	1998-09-03	USA	502.35
16	17	9	1996-01-01	Canada	399.99
17	18	17	2004-06-10	Germany	241.00
18	19	3	2002-11-28	France	599.75
19	20	21	2001-01-14	UK	705.12
20	21	30	1996-12-31	India	812.10
21	24	2	2003-05-01	France	710.00
22	25	15	1998-08-17	UK	399.95
23	26	22	1999-09-30	India	298.20
24	27	35	2005-07-07	Germany	650.50
25	28	8	1995-10-05	Canada	870.40
26	29	38	1997-01-20	France	564.45
27	30	40	2001-03-19	USA	987.77

20. List of countries and sales made in each country

```sql
-- 20. Countries and sales made in each
SELECT ShippedCountry, SUM(TotalAmount) AS TotalSales
FROM Orders
GROUP BY ShippedCountry;
```

	ShippedCountry	TotalSales
1	Canada	2910.10
2	France	3330.11
3	Germany	2500.22
4	India	1868.41
5	UK	2966.69
6	USA	2751.66

21. List of Customer ContactName and number of orders they placed

```sql
-- 21. Customer name and number of orders
SELECT C.CustomerName, COUNT(O.OrderID) AS OrderCount
FROM Customer1 C
JOIN Orders O ON C.CustomerID = O.CustomerID
GROUP BY C.CustomerName;
```

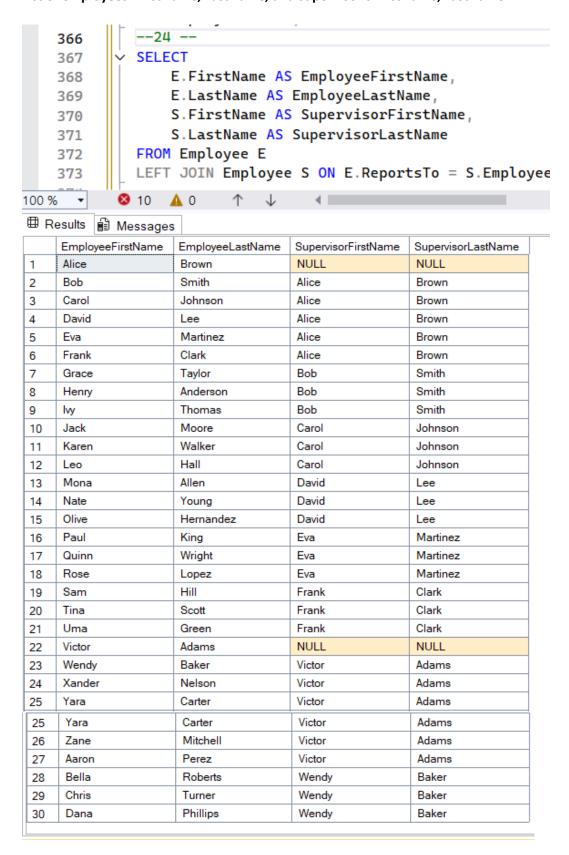|	CustomerName	OrderCount
1	Aarav	1
2	Alexander	1
3	Ava	1
4	Avery	1
5	Benjamin	1
6	Chloe	1
7	Daniel	1
8	Elijah	1
9	Emma	1
10	Ethan	1
11	Evelyn	1
12	Gabriel	1
13	Grace	1
14	Henry	1
15	James	1
16	John	1
17	Liam	1
18	Lily	1
19	Lucas	1
20	Mia	1
21	Michael	1
22	Nora	1
23	Olivia	1
24	Owen	1
25	Samuel	1
26	Sophia	1
27	Victoria	1
28	Wei	1
29	William	1
30	Zoe	1

22. List of customer contact names who placed more than 3 orders

```
322        -- 22. Customers with more than 3 orders
323        SELECT C.CustomerName
324        FROM Customer1 C
325        JOIN Orders O ON C.CustomerID = O.CustomerID
326        GROUP BY C.CustomerName
327        HAVING COUNT(O.OrderID) > 3;
328
```

100 %   ⊗ 11   ⚠ 0   ↑ ↓   ◄ ▬▬▬▬▬▬▬

⊞ Results 📄 Messages

CustomerName

23. List of discontinued products ordered between 01/01/1997 and 01/01/1998

```
556
557        -- 23. Discontinued products ordered between dates
558    ∨  SELECT DISTINCT P.*
559        FROM Product P
560        JOIN OrderDetails OD ON P.ProductID = OD.ProductID
561        JOIN Orders O ON OD.OrderID = O.OrderID
562        WHERE P.Discontinued = 1
563          AND O.OrderDate BETWEEN '1997-01-01' AND '1998-01-01';
```

100 %   ⊗ 25   ⚠ 0   ↑ ↓   ◄ ▬▬▬▬▬▬▬▬▬▬▬▬   ►   Ln

⊞ Results 📄 Messages

ProductID	ProductName	Category	UnitsInStock	UnitsOnOrder	Discontinued	SupplierID

24. List of employees: FirstName, LastName, and supervisor's FirstName, LastName

```sql
366   --24 --
367   SELECT
368       E.FirstName AS EmployeeFirstName,
369       E.LastName AS EmployeeLastName,
370       S.FirstName AS SupervisorFirstName,
371       S.LastName AS SupervisorLastName
372   FROM Employee E
373   LEFT JOIN Employee S ON E.ReportsTo = S.Employee
```

100 %   ❌ 10   ⚠ 0   ↑   ↓   ◄

⊞ Results   📄 Messages

	EmployeeFirstName	EmployeeLastName	SupervisorFirstName	SupervisorLastName
1	Alice	Brown	NULL	NULL
2	Bob	Smith	Alice	Brown
3	Carol	Johnson	Alice	Brown
4	David	Lee	Alice	Brown
5	Eva	Martinez	Alice	Brown
6	Frank	Clark	Alice	Brown
7	Grace	Taylor	Bob	Smith
8	Henry	Anderson	Bob	Smith
9	Ivy	Thomas	Bob	Smith
10	Jack	Moore	Carol	Johnson
11	Karen	Walker	Carol	Johnson
12	Leo	Hall	Carol	Johnson
13	Mona	Allen	David	Lee
14	Nate	Young	David	Lee
15	Olive	Hernandez	David	Lee
16	Paul	King	Eva	Martinez
17	Quinn	Wright	Eva	Martinez
18	Rose	Lopez	Eva	Martinez
19	Sam	Hill	Frank	Clark
20	Tina	Scott	Frank	Clark
21	Uma	Green	Frank	Clark
22	Victor	Adams	NULL	NULL
23	Wendy	Baker	Victor	Adams
24	Xander	Nelson	Victor	Adams
25	Yara	Carter	Victor	Adams

25	Yara	Carter	Victor	Adams
26	Zane	Mitchell	Victor	Adams
27	Aaron	Perez	Victor	Adams
28	Bella	Roberts	Wendy	Baker
29	Chris	Turner	Wendy	Baker
30	Dana	Phillips	Wendy	Baker

25. List of employees' ID and total sale conducted by each

```
375    --25--
376    SELECT EmployeeID,FirstName,LastName,TotalSales
377    FROM Employee;
```

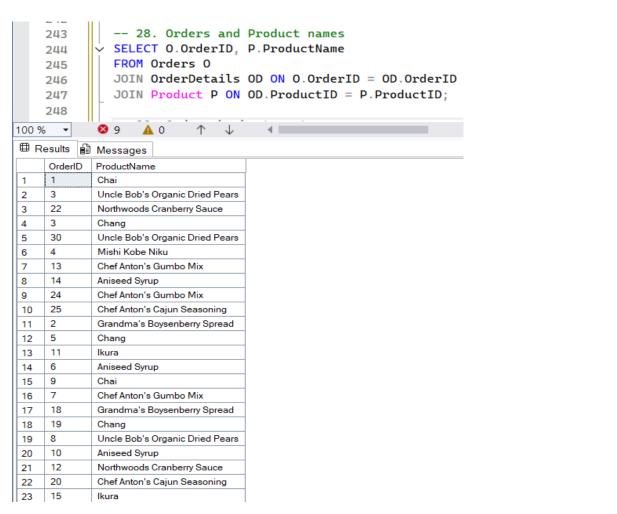|	EmployeeID	FirstName	LastName	TotalSales
1	1	Alice	Brown	20000
2	2	Bob	Smith	15000
3	3	Carol	Johnson	18000
4	4	David	Lee	12000
5	5	Eva	Martinez	11000
6	6	Frank	Clark	10000
7	7	Grace	Taylor	9500
8	8	Henry	Anderson	8700
9	9	Ivy	Thomas	9100
10	10	Jack	Moore	8900
11	11	Karen	Walker	7600
12	12	Leo	Hall	8400
13	13	Mona	Allen	7300
14	14	Nate	Young	9500
15	15	Olive	Hernandez	10200
16	16	Paul	King	8100
17	17	Quinn	Wright	7700
18	18	Rose	Lopez	9300
19	19	Sam	Hill	8800
20	20	Tina	Scott	8600
21	21	Uma	Green	7900
22	22	Victor	Adams	19500
23	23	Wendy	Baker	16200
24	24	Xander	Nelson	14200
25	25	Yara	Carter	12000
26	26	Zane	Mitchell	11000
27	27	Aaron	Perez	13000
28	28	Bella	Roberts	9800
29	29	Chris	Turner	9100
30	30	Dana	Phillips	10300

26. List of employees whose FirstName contains letter a

```
343    -- 26. Customers whose name contains 'a'
344    SELECT * FROM Customer1
345    WHERE CustomerName LIKE '%a%';
```

100 % ▼   ⊗ 9   ⚠ 0   ↑   ↓   ◄

⊞ Results ▤ Messages

	CustomerID	CustomerName	LastName	Country	Age	Phone
1	2	Emma	Smith	UK	35	9876543210
2	3	Aarav	Patel	India	22	9123456780
3	5	Liam	Johnson	Canada	40	6471234567
4	6	Olivia	Williams	Australia	29	0412345678
5	7	Noah	Brown	USA	32	1234509876
6	8	Sophia	Taylor	UK	27	4471234567
7	9	Mia	Singh	India	21	9876543211
8	10	Lucas	Martinez	Spain	33	612345678
9	11	Amelia	Garcia	Mexico	26	5512345678
10	12	Ethan	Lopez	USA	45	7894561230
11	13	Isabella	Lee	South Korea	24	01012345678
12	14	James	Nguyen	Vietnam	34	0912345678
13	15	Elijah	Kumar	India	38	9988776655
14	16	Charlotte	Verma	India	23	8899776655
15	17	Benjamin	Gupta	India	36	7788990011
16	18	Ava	Bose	India	25	7788123456
17	19	Logan	Das	India	31	9988997766
18	20	Harper	Mishra	India	22	9090909090
19	21	William	Sharma	India	28	9876543000
20	23	Alexander	Khan	Pakistan	37	3211234567
21	25	Michael	Ahmed	Egypt	33	2012345678
22	26	Abigail	Ibrahim	Nigeria	39	08012345678
23	27	Daniel	Okafor	Nigeria	26	08123456789
24	28	Ella	Mwangi	Kenya	31	0712345678
25	29	Matthew	Ouma	Kenya	24	0723456789
26	31	Jackson	Yamada	Japan	35	08012345678
27	32	Avery	Tanaka	Japan	30	07098765432
28	33	Sebastian	Sato	Japan	34	09011223344
29	34	Scarlett	Li	China	25	8610987654
30	36	Grace	Huang	Taiwan	29	0911122233
31	37	David	Lin	Taiwan	30	0933456677
32	38	Victoria	Wang	Taiwan	27	0987654321
33	41	Samuel	Perera	Sri Lanka	35	0771234567
34	42	Hannah	Fernando	Sri Lanka	31	0719876543
35	44	Aria	Gomez	Argentina	28	5423456789
36	45	Gabriel	Silva	Brazil	29	5512345678
37	47	Jayden	Müller	Germany	36	491234567...
38	50	Nora	Leroy	France	30	33987654321

27. List of managers with more than 4 subordinates

```sql
--27--
SELECT
    E.EmployeeID AS ManagerID,
    E.FirstName + ' ' + E.LastName AS ManagerName,
    COUNT(S.EmployeeID) AS SubordinateCount
FROM Employee E
JOIN Employee S ON E.EmployeeID = S.ReportsTo
GROUP BY E.EmployeeID, E.FirstName, E.LastName
HAVING COUNT(S.EmployeeID) > 4;
```

	ManagerID	ManagerName	SubordinateCount
1	1	Alice Brown	5
2	22	Victor Adams	5

28. List of orders and corresponding ProductNames

```sql
-- 28. Orders and Product names
SELECT O.OrderID, P.ProductName
FROM Orders O
JOIN OrderDetails OD ON O.OrderID = OD.OrderID
JOIN Product P ON OD.ProductID = P.ProductID;
```

	OrderID	ProductName
1	1	Chai
2	3	Uncle Bob's Organic Dried Pears
3	22	Northwoods Cranberry Sauce
4	3	Chang
5	30	Uncle Bob's Organic Dried Pears
6	4	Mishi Kobe Niku
7	13	Chef Anton's Gumbo Mix
8	14	Aniseed Syrup
9	24	Chef Anton's Gumbo Mix
10	25	Chef Anton's Cajun Seasoning
11	2	Grandma's Boysenberry Spread
12	5	Chang
13	11	Ikura
14	6	Aniseed Syrup
15	9	Chai
16	7	Chef Anton's Gumbo Mix
17	18	Grandma's Boysenberry Spread
18	19	Chang
19	8	Uncle Bob's Organic Dried Pears
20	10	Aniseed Syrup
21	12	Northwoods Cranberry Sauce
22	20	Chef Anton's Cajun Seasoning
23	15	Ikura

24	16	Mishi Kobe Niku
25	17	Chai
26	23	Chang
27	26	Chef Anton's Cajun Seasoning
28	27	Grandma's Boysenberry Spread
29	28	Northwoods Cranberry Sauce
30	29	Aniseed Syrup
31	30	Chef Anton's Gumbo Mix
32	21	Uncle Bob's Organic Dried Pears
33	14	Aniseed Syrup
34	13	Grandma's Boysenberry Spread
35	19	Ikura
36	20	Mishi Kobe Niku
37	12	Chai
38	11	Chef Anton's Gumbo Mix
39	28	Chang
40	22	Aniseed Syrup

29. List of orders placed by the best customer

```
--29--
SELECT O.*
FROM Orders O
JOIN (
    SELECT TOP 1 CustomerID
    FROM Orders
    GROUP BY CustomerID
    ORDER BY SUM(TotalAmount) DESC
) AS BestCustomer ON O.CustomerID = BestCustomer.CustomerID;
```

	OrderID	CustomerID	OrderDate	ShippedCountry	TotalAmount	EmployeeID
1	30	40	2001-03-19	USA	987.77	NULL

30. List of orders placed by customers who don't have a Fax number

```
417        --30--
418      SELECT O.*
419        FROM Orders O
420        JOIN Customer C ON O.CustomerID = C.CustomerID
421        WHERE C.Fax IS NULL;
```

100 % ▾ ⊗ 15 ⚠ 0 ↑ ↓ ◀

⊞ Results 🗐 Messages

	OrderID	CustomerID	OrderDate	ShippedCountry	TotalAmount	EmployeeID
1	1	10	1995-01-07	Canada	895.60	1
2	2	41	1998-04-19	Germany	773.16	2
3	3	23	1995-08-31	USA	906.59	3
4	4	25	1999-06-11	UK	638.09	4
5	5	32	2003-11-27	France	816.87	5
6	6	36	1995-04-23	UK	169.75	6
7	7	4	2001-09-29	France	421.24	7
8	8	46	1998-04-16	India	325.61	8
9	9	45	1999-03-20	Germany	706.26	9
10	10	43	2002-08-05	UK	366.35	10
11	11	27	1996-11-15	Canada	544.12	11
12	12	18	1997-07-09	USA	354.95	12
13	13	6	2000-02-18	France	217.80	13
14	14	14	1996-05-12	UK	687.43	14
15	15	50	1995-12-25	India	432.50	15
16	16	5	1998-09-03	USA	502.35	16
17	17	9	1996-01-01	Canada	399.99	17
18	18	17	2004-06-10	Germany	241.00	18
19	19	3	2002-11-28	France	599.75	19
20	20	21	2001-01-14	UK	705.12	20
21	21	30	1996-12-31	India	812.10	21
22	22	12	1997-03-10	Canada	199.99	22
23	23	1	2000-04-22	Germany	129.30	23
24	24	2	2003-05-01	France	710.00	24
25	25	15	1998-08-17	UK	399.95	25
26	26	22	1999-09-30	India	298.20	26
27	27	35	2005-07-07	Germany	650.50	27
28	28	8	1995-10-05	Canada	870.40	28
29	29	38	1997-01-20	France	564.45	29
30	30	40	2001-03-19	USA	987.77	30

31. List of postal codes where Tofu was shipped

```
428        --31--
429      SELECT DISTINCT C.PostalCode
430        FROM Customer1 C
431        JOIN Orders O ON C.CustomerID = O.CustomerID
432        JOIN OrderDetails OD ON O.OrderID = OD.OrderID
433        JOIN Product P ON OD.ProductID = P.ProductID
434        WHERE P.ProductName = 'Tofu';
```

100 % ▾ ⊗ 17 ⚠ 0 ↑ ↓ ◀

⊞ Results 🗐 Messages

PostalCode

32. List of product names shipped to France

```
265     -- 32. Product names shipped to France
266   ∨ SELECT DISTINCT P.ProductName
267     FROM Product P
268     JOIN OrderDetails OD ON P.ProductID = OD.ProductID
269     JOIN Orders O ON OD.OrderID = O.OrderID
270     WHERE O.ShippedCountry = 'France';
271
```

100 %   ❌ 9   ⚠ 0   ↑ ↓   ◄

⊞ Results ▤ Messages

	ProductName
1	Aniseed Syrup
2	Chang
3	Chef Anton's Gumbo Mix
4	Grandma's Boysenberry Spread
5	Ikura

33. List of ProductNames and Categories for supplier "Specialty Biscuits, Ltd."

```
454
455   ∨ --33--
456     -- Query
457   ∨ SELECT P.ProductName, P.Category
458     FROM Product P
459     JOIN Supplier S ON P.SupplierID = S.SupplierID
460     WHERE S.SupplierName = 'Specialty Biscuits, Ltd.';
461
```

100 %   ❌ 17   ⚠ 0   ↑ ↓   ◄

⊞ Results ▤ Messages

	ProductName	Category
1	Chai	Beverages
2	Chang	Beverages
3	Aniseed Syrup	Condiments
4	Chef Anton's Cajun Seasoning	Condiments
5	Chef Anton's Gumbo Mix	Condiments
6	Grandma's Boysenberry Spread	Condiments
7	Queso Cabrales	Dairy Products
8	Queso Manchego La Pastora	Dairy Products
9	Pavlova	Confections
10	Alice Mutton	Meat/Poultry
11	Carnarvon Tigers	Seafood

34. List of products never ordered

```
277        -- 34. Products never ordered
278      ⌄ SELECT * FROM Product
279        WHERE ProductID NOT IN (SELECT DISTINCT ProductID FROM OrderDetails);
280
```

100 %   ❌ 9   ⚠ 0   ↑   ↓   ▶   Ln: 279

Results **Messages**

	ProductID	ProductName	Category	UnitsInStock	UnitsOnOrder	Discontinued	SupplierID
1	11	Queso Cabrales	Dairy Products	22	30	0	5
2	12	Queso Manchego La Pastora	Dairy Products	86	0	0	5
3	13	Konbu	Seafood	24	0	0	6
4	14	Tofu	Produce	35	0	0	6
5	15	Genen Shouyu	Condiments	39	0	0	6
6	16	Pavlova	Confections	29	0	0	7
7	17	Alice Mutton	Meat/Poultry	0	0	1	7
8	18	Carnarvon Tigers	Seafood	42	0	0	7
9	19	Teatime Chocolate Biscuits	Confections	25	10	0	8
10	20	Sir Rodney's Marmalade	Confections	40	5	0	8
11	21	Sir Rodney's Scones	Confections	3	0	0	8
12	22	Nord-Ost Matjeshering	Seafood	10	0	0	9
13	23	Gorgonzola Telino	Dairy Products	20	15	0	9
14	24	Mascarpone Fabioli	Dairy Products	32	0	0	9
15	25	Geitost	Dairy Products	15	0	0	10
16	26	Sasquatch Ale	Beverages	125	0	0	10
17	27	Steeleye Stout	Beverages	20	0	0	10
18	28	Inlagd Sill	Seafood	112	0	0	11
19	29	Gravad lax	Seafood	11	0	0	11
20	30	Côte de Blaye	Beverages	17	0	0	11

35. List of products where UnitsInStock < 10 and UnitsOnOrder = 0

```
281        -- 35. Products with stock < 10 and order = 0
282      ⌄ SELECT * FROM Product
283        WHERE UnitsInStock < 10 AND UnitsOnOrder = 0;
284
```

100 %   ❌ 9   ⚠ 0   ↑   ↓   ▶   Ln: 28

Results **Messages**

	ProductID	ProductName	Category	UnitsInStock	UnitsOnOrder	Discontinued	SupplierID
1	5	Chef Anton's Gumbo Mix	Condiments	0	0	1	2
2	8	Northwoods Cranberry Sauce	Condiments	6	0	0	3
3	17	Alice Mutton	Meat/Poultry	0	0	1	7
4	21	Sir Rodney's Scones	Confections	3	0	0	8

36. Top 10 countries by sales

```
285        -- 36. Top 10 countries by sales
286      ⌄ SELECT TOP 10 ShippedCountry, SUM(TotalAmount) AS TotalSales
287        FROM Orders
288        GROUP BY ShippedCountry
289        ORDER BY TotalSales DESC;
290
```

100 %   ❌ 9   ⚠ 0   ↑   ↓   ▶

Results **Messages**

	ShippedCountry	TotalSales
1	France	3330.11
2	UK	2966.69
3	Canada	2910.10
4	USA	2751.66
5	Germany	2500.22
6	India	1868.41

37. Number of orders per employee for customers with IDs between 6 and 25.

```
468    --37--
469    SELECT
470        E.EmployeeID,
471        E.FirstName,
472        E.LastName,
473        COUNT(O.OrderID) AS OrderCount
474    FROM Orders O
475    JOIN Employee E ON O.EmployeeID = E.EmployeeID
476    WHERE O.CustomerID BETWEEN 6 AND 25
477    GROUP BY E.EmployeeID, E.FirstName, E.LastName;
478
479
```

100 %   ⊗ 17   ⚠ 0   ↑   ↓

Results | Messages

	EmployeeID	FirstName	LastName	OrderCount
1	1	Alice	Brown	1
2	3	Carol	Johnson	1
3	4	David	Lee	1
4	12	Leo	Hall	1
5	13	Mona	Allen	1
6	14	Nate	Young	1
7	17	Quinn	Wright	1
8	18	Rose	Lopez	1
9	20	Tina	Scott	1
10	22	Victor	Adams	1
11	25	Yara	Carter	1
12	26	Zane	Mitchell	1
13	28	Bella	Roberts	1

38. Order date of most expensive order

```
294    -- 38. Order date of most expensive order
295    SELECT TOP 1 OrderDate
296    FROM Orders
297    ORDER BY TotalAmount DESC;
298
```

100 %   ⊗ 9   ⚠ 0   ↑   ↓

Results | Messages

	OrderDate
1	2001-03-19

39. Product name and total revenue from that product

```
299    -- 39. Product name and total revenue
300    SELECT P.ProductName, SUM(OD.Quantity * OD.Price) AS Revenue
301    FROM Product P
302    JOIN OrderDetails OD ON P.ProductID = OD.ProductID
303    GROUP BY P.ProductName;
```

100 %   ⊗ 9   ⚠ 0   ↑   ↓

Results | Messages

	ProductName	Revenue
1	Aniseed Syrup	1742.99
2	Chai	858.82
3	Chang	480.40
4	Chef Anton's Cajun Seasoning	515.46
5	Chef Anton's Gumbo Mix	1752.49
6	Grandma's Boysenberry Spread	623.39
7	Ikura	981.42
8	Mishi Kobe Niku	556.19
9	Northwoods Cranberry Sauce	859.50
10	Uncle Bob's Organic Dried Pears	1182.11

40. SupplierID and number of products they offer

```
305     -- 40. Supplier and number of products they offer
306   ∨ SELECT SupplierID, COUNT(*) AS ProductCount
307     FROM Product
308     GROUP BY SupplierID;
309
```

100 %   ⊗ 9   ⚠ 0   ↑   ↓   ◄

⊞ Results 📄 Messages

	SupplierID	ProductCount
1	1	3
2	2	3
3	3	2
4	4	2
5	5	2
6	6	3
7	7	3
8	8	3
9	9	3
10	10	3
11	11	3

41. Top 10 customers based on business

```
310     -- 41. Top 10 customers based on business
311   ∨ SELECT TOP 10 C.CustomerName, SUM(O.TotalAmount) AS TotalSpent
312     FROM Customer C
313     JOIN Orders O ON C.CustomerID = O.CustomerID
314     GROUP BY C.CustomerName
315     ORDER BY TotalSpent DESC;
316
```

100 %   ⊗ 9   ⚠ 0   ↑   ↓   ◄   ►

⊞ Results 📄 Messages

	CustomerName	TotalSpent
1	Lily	987.77
2	Alexander	906.59
3	Lucas	895.60
4	Sophia	870.40
5	Avery	816.87
6	Chloe	812.10
7	Samuel	773.16
8	Emma	710.00
9	Gabriel	706.26
10	William	705.12

42. Total revenue of the company

```
317      -- 42. Total revenue of the company
318      SELECT SUM(TotalAmount) AS CompanyRevenue FROM Orders;
319
320
```

100 %   ⊗ 9   ⚠ 0   ↑   ↓

Results | Messages

	CompanyRevenue
1	16327.19