

Home > Resource groups >

rg-3feb

Resource group

Search

CreateManage viewDelete resource group

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Essentials

ResourcesRecommendations

Filter for any field...Type equals all

Showing 1 to 2 of 2 records. Show hidden types

Name

db3praneet (server3praneet/db3praneet)

server3praneet

Delete a resource group

The following resource group and all its dependent resources will be permanently deleted.

Resource group to be deleted

rg-3feb

Dependent resources to be deleted (3)

All dependent resources, including hidden types, are shown

Name	Resource type
db3praneet (server3praneet/db3praneet)	SQL database
master (server3praneet/master)	SQL database
server3praneet	SQL server

Enter resource group name to confirm deletion *

rg-3feb

DeleteCancel

Home > db3praneet (server3praneet/db3praneet)

db3praneet (server3praneet/db3praneet)

SQL database

Search

LoginNew QueryOpen queryFeedbackGetting started

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Settings

Compute + storage

Connection strings

Properties

Locks

Data management

Replicas

Sync to other databases

Integrations

Stream analytics (preview)

Add Azure AI Search

Power Platform

Power BI

Power Apps

Power Automate

Security

Auditing

db3praneet (dbadmin)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Tables

dbo.BuildVersion

dbo.ErrorLog

SalesLT.Address

AddressID (PK, int, not null)

AddressLine1 (nvarchar, not null)

AddressLine2 (nvarchar, null)

City (nvarchar, not null)

StateProvince (Name, not null)

CountryRegion (Name, not null)

PostalCode (nvarchar, not null)

rowguid (uniqueidentifier, not null)

ModifiedDate (datetime, not null)

SalesLT.Customer

SalesLT.CustomerAddress

SalesLT.Product

SalesLT.ProductCategory

SalesLT.ProductDescription

SalesLT.ProductModel

SalesLT.ProductModelProductDescription

SalesLT.SalesOrderDetail

SalesLT.SalesOrderHeader

Views

Stored Procedures

1. Retrieve a list of customers along with their total order amounts.

```
SELECT
    C.CustomerID,
    C.CompanyName,
    SUM(SOH.TotalDue) as TotalOrderAmount
FROM
    SalesLT.SalesOrderHeader SOH
JOIN
    SalesLT.SalesOrderDetail SOD ON SOH.SalesOrderID = SOD.SalesOrderID
JOIN
    SalesLT.Customer C ON SOH.CustomerID = C.CustomerID
GROUP BY
    C.CustomerID, C.CompanyName;
```

The screenshot shows the SQL Server Enterprise Manager interface. The top menu bar includes File, Edit, View, and Help. The main window displays a query in the 'SQLQuery_1 - server...badmin)' tab. The query is as follows:

```
1 SELECT
2     C.CustomerID,
3     C.CompanyName,
4     SUM(SOH.TotalDue) as TotalOrderAmount
5 FROM
6     SalesLT.SalesOrderHeader SOH
7 JOIN
8     SalesLT.SalesOrderDetail SOD ON SOH.SalesOrderID = SOD.SalesOrderID
9 JOIN
10    SalesLT.Customer C ON SOH.CustomerID = C.CustomerID
11 GROUP BY
12    C.CustomerID, C.CompanyName;
```

Below the query editor, the 'Results' tab is active, showing the output of the query. The results are displayed in a table with the following columns: CustomerID, CompanyName, and TotalOrderAmount. The table contains 14 rows of data.

	CustomerID	CompanyName	TotalOrderAmount
1	29485	Professional Sales and Service	1890399.9743
2	29531	Remarkable Bike Store	43985.3832
3	29546	Bulk Discount Store	4121804.9502
4	29568	Coalition Bike Company	21354.5464
5	29584	Futuristic Bikes	817.9404
6	29612	Channel Outlet	1824.5298
7	29638	Aerobic Exercise Company	11808.2015
8	29644	Vigorous Sports Store	1170.5376
9	29653	Thrilling Bike Tours	259678.3609
10	29660	Extreme Riding Supplies	1273725.416
11	29736	Action Bicycle Specialists	5158315.432
12	29741	Central Bicycle Specialists	43.0437
13	29781	The Bicycle Accessories Company	353.1828
14	29796	Riding Cycles	3966249.1312

2. Display product information along with the number of units sold for each product.

server3praneet.database.windows.net:db3praneet

SQLQuery_1 - server...badmin)

Run Cancel Disconnect Change Database: db3praneet Estimated Plan Enable Actual Plan Parse

```
1 SELECT
2     P.Name,
3     P.Color,
4     P.StandardCost,
5     P.ListPrice,
6     P.Size,
7     P.Weight,
8     SUM(SOD.OrderQty) as NumberOfUnits
9 FROM
10    SalesLT.Product P
11 JOIN
12    SalesLT.SalesOrderDetail SOD ON SOD.ProductID = P.ProductID
13 GROUP BY
14     P.ProductID,
15     P.Name,
16     P.Color,
17     P.StandardCost,
18     P.ListPrice,
19     P.Size,
20     P.Weight;
```

Results Messages

	Name	Color	StandardCost	ListPrice	Size	Weight	NumberOfUnits
1	Sport-100 Helmet, Red	Red	13.0863	34.99	NULL	NULL	35
2	Sport-100 Helmet, Black	Black	13.0863	34.99	NULL	NULL	51
3	Sport-100 Helmet, Blue	Blue	13.0863	34.99	NULL	NULL	38
4	AWC Logo Cap	Multi	6.9223	8.99	NULL	NULL	52
5	Long-Sleeve Logo Jersey, M	Multi	38.4923	49.99	M	NULL	26
6	Long-Sleeve Logo Jersey, L	Multi	38.4923	49.99	L	NULL	51
7	Long-Sleeve Logo Jersey, XL	Multi	38.4923	49.99	XL	NULL	14
8	HL Road Frame - Red, 62	Red	868.6342	1431.50	62	1043.26	3

3. Find employees who have the same manager. (DATA INSUFFICIENT)

4. List all customers who have never placed an order.

server3praneet.database.windows.net:db3praneet

SQLQuery_1 - server...badmin)

Run Cancel Disconnect Change Database: db3praneet Estimated Plan Enable Actual Plan Parse

```
1 SELECT
2     C.CustomerID,
3     CONCAT(C.Title, ' ', C.FirstName, ' ', C.MiddleName, ' ', C.LastName) as "Customers with No Orders"
4 FROM
5     SalesLT.Customer C
6 LEFT JOIN
7     SalesLT.SalesOrderHeader SOH ON SOH.CustomerID = C.CustomerID
8 WHERE SOH.CustomerID IS NULL;
```

Results

Messages

	CustomerID ▾	Customers with No Orders ▾
1	1	Mr. Orlando N. Gee
2	2	Mr. Keith Harris
3	3	Ms. Donna F. Carreras
4	4	Ms. Janet M. Gates
5	5	Mr. Lucy Harrington
6	6	Ms. Rosmarie J. Carroll
7	7	Mr. Dominic P. Gash
8	10	Ms. Kathleen M. Garza
9	11	Ms. Katherine Harding
10	12	Mr. Johnny A. Caprio
11	16	Mr. Christopher R. Beck
12	18	Mr. David J. Liu
13	19	Mr. John A. Beaver
14	20	Ms. Jean P. Handley
15	21	Jinghao Liu
16	22	Ms. Linda E. Burnett
17	23	Mr. Kerim Hanif
18	24	Mr. Kevin Liu

5. Retrieve the total sales amount for each product category.

Welcome server3praneet.database.windows.net:db3praneet SQLQuery_1 - server...badmin)

Run Cancel Disconnect Change Database: db3praneet ▾ Estimated Plan Enable Actual Plan ✓ Pa

```
1 SELECT
2     P.ProductCategoryID,
3     SUM(SOH.TotalDue) AS TotalAmountforEachCategory
4 FROM
5     SalesLT.SalesOrderHeader SOH
6 JOIN
7     SalesLT.SalesOrderDetail SOD ON SOD.SalesOrderID = SOH.SalesOrderID
8 JOIN
9     SalesLT.Product P ON P.ProductID = SOD.ProductID
10 GROUP BY
11     P.ProductCategoryID;
12
```

Results		Messages
	ProductCategoryID ▼	TotalAmountforEachCategory ▼
1	5	4307066.3148
2	6	3860060.9106
3	7	4951047.8822
4	8	1019730.905
5	9	492511.8383
6	10	302387.2668
7	11	240564.51
8	12	494541.4147
9	13	437753.4689
10	16	2981257.3917
11	17	1678628.6952
12	18	1545066.0863
13	19	1045359.1508
14	20	1468393.5454
15	23	555831.2572
16	24	1109114.6917
17	25	3020346.9345
18	26	749873.193
19	27	398713.3372
20	29	1063758.8636
21	30	526685.1306

6. Display the names of employees and their direct managers. (DATA INSUFFICIENT).

7. Show the order details with product names for a specific customer.

The screenshot shows the SQL Server Enterprise Manager interface. The top bar indicates the connection to 'server3praneet.database.windows.net:db3praneet'. The query editor displays the following SQL query:

```
1  SELECT
2      SOD.SalesOrderID,
3      SOD.OrderQty,
4      SOD.ProductID,
5      SOD.UnitPrice,
6      P.Name AS ProductName,
7      SOH.OrderDate
8  FROM
9      SalesLT.SalesOrderDetail SOD
10     JOIN
11         SalesLT.SalesOrderHeader SOH ON SOD.SalesOrderID = SOH.SalesOrderID
12     JOIN
13         SalesLT.Product P ON SOD.ProductID = P.ProductID
14     WHERE
15         SOH.CustomerID = 29847;
```

Below the query editor, the 'Results' tab is active, showing a table with 7 columns: SalesOrderID, OrderQty, ProductID, UnitPrice, ProductName, and OrderDate. The table contains 2 rows of data.

	SalesOrderID	OrderQty	ProductID	UnitPrice	ProductName	OrderDate
1	71774	1	836	356.898	ML Road Frame-W - Yellow, 48	2008-06-01 00:00:00.000
2	71774	1	822	356.898	ML Road Frame-W - Yellow, 38	2008-06-01 00:00:00.000

8. List customers who have made purchases in the last 30 days.

SELECT DISTINCT

C.CustomerID,
C.FirstName,
C.LastName

FROM

SalesLT.Customer C

JOIN

SalesLT.SalesOrderHeader SOH ON C.CustomerID = SOH.CustomerID

WHERE

SOH.OrderDate >= DATEADD(day, -30, GETDATE());

9. Find employees who do not have any direct reports. (DATA INSUFFICIENT)

10. Retrieve all products along with their average selling prices.

The screenshot shows the SQL Server Enterprise Manager interface. The top bar indicates the connection to 'server3praneet.database.windows.net:db3praneet'. The query editor displays the following SQL query:

```
1  SELECT
2      P.ProductID,
3      P.Name AS ProductName,
4      AVG(SOD.UnitPrice) AS AverageSellingPrice
5  FROM
6      SalesLT.Product P
7  JOIN
8      SalesLT.SalesOrderDetail SOD ON P.ProductID = SOD.ProductID
9  GROUP BY
10     P.ProductID,
11     P.Name;
```

Welcome		server3praneet.database.windows.net:db3praneet		SQLQuery_1 - server...badmin)	
Run	Cancel	Disconnect	Change	Database: db3praneet	Estimated Plan Enable Actual Plan
Results Messages					
	ProductID	ProductName	AverageSellingPrice		
1	712	AWC Logo Cap	5.374		
2	877	Bike Wash - Dissolver	4.7132		
3	952	Chain	12.144		
4	865	Classic Vest, M	38.10		
5	864	Classic Vest, S	37.1475		
6	948	Front Brakes	63.90		
7	945	Front Derailleur	54.894		
8	860	Half-Finger Gloves, L	14.694		
9	859	Half-Finger Gloves, M	14.694		
10	858	Half-Finger Gloves, S	14.694		
11	876	Hitch Rack - 4-Bike	72.00		
12	996	HL Bottom Bracket	72.894		
13	951	HL Crankset	242.994		
14	747	HL Mountain Frame - Black, 38	809.76		
15	743	HL Mountain Frame - Black, 42	809.76		
16	748	HL Mountain Frame - Silver, ...	818.70		
17	739	HL Mountain Frame - Silver, ...	818.70		
18	742	HL Mountain Frame - Silver, ...	818.70		
19	810	HL Mountain Handlebars	72.162		
20	937	HL Mountain Pedal	48.594		
21	910	HL Mountain Seat/Saddle	31.584		
22	838	HL Road Frame - Black, 44	858.90		

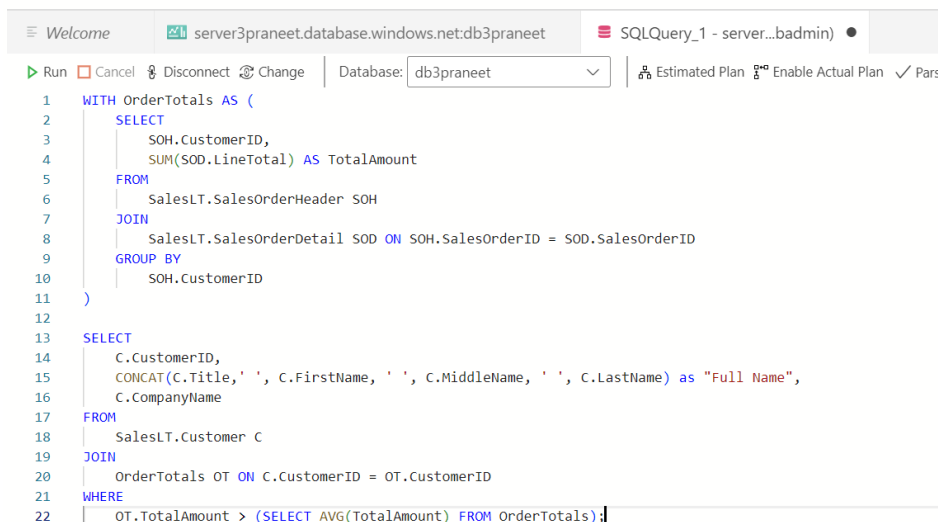
SUBQUERIES:

11. Find the order with the highest total amount.

Welcome		server3praneet.database.windows.net:db3praneet		SQLQuery_1 - server...badmin)	
Run	Cancel	Disconnect	Change	Database: db3praneet	Estimated Plan Enable Actual Plan Parse
<pre> 1 SELECT 2 SOD.SalesOrderID, 3 SUM(LineTotal) AS TotalAmount 4 FROM 5 SalesLT.SalesOrderHeader SOH 6 JOIN 7 SalesLT.SalesOrderDetail SOD ON SOH.SalesOrderID = SOD.SalesOrderID 8 GROUP BY 9 SOD.SalesOrderID 10 ORDER BY 11 TotalAmount DESC 12 OFFSET 0 ROWS 13 FETCH NEXT 1 ROWS ONLY;</pre>					
Results Messages					
	SalesOrderID	TotalAmount			
1	71784	89869.276314			

12. Display customers who have placed orders with a total amount greater than the average.

```
WITH OrderTotals AS (  
    SELECT  
        SOH.CustomerID,  
        SUM(SOD.LineTotal) AS TotalAmount  
    FROM  
        SalesLT.SalesOrderHeader SOH  
    JOIN  
        SalesLT.SalesOrderDetail SOD ON SOH.SalesOrderID = SOD.SalesOrderID  
    GROUP BY  
        SOH.CustomerID  
)  
  
SELECT  
    C.CustomerID,  
    CONCAT(C.Title, ' ', C.FirstName, ' ', C.MiddleName, ' ', C.LastName) as "Full Name",  
    C.CompanyName  
FROM  
    SalesLT.Customer C  
JOIN  
    OrderTotals OT ON C.CustomerID = OT.CustomerID  
WHERE  
    OT.TotalAmount > (SELECT AVG(TotalAmount) FROM OrderTotals);
```



```
1 WITH OrderTotals AS (  
2     SELECT  
3         SOH.CustomerID,  
4         SUM(SOD.LineTotal) AS TotalAmount  
5     FROM  
6         SalesLT.SalesOrderHeader SOH  
7     JOIN  
8         SalesLT.SalesOrderDetail SOD ON SOH.SalesOrderID = SOD.SalesOrderID  
9     GROUP BY  
10        SOH.CustomerID  
11 )  
12  
13 SELECT  
14     C.CustomerID,  
15     CONCAT(C.Title, ' ', C.FirstName, ' ', C.MiddleName, ' ', C.LastName) as "Full Name",  
16     C.CompanyName  
17 FROM  
18     SalesLT.Customer C  
19 JOIN  
20     OrderTotals OT ON C.CustomerID = OT.CustomerID  
21 WHERE  
22     OT.TotalAmount > (SELECT AVG(TotalAmount) FROM OrderTotals);
```

Results

	CustomerID	Full Name	CompanyName
1	29485	Ms. Catherine R. Abel	Professional Sales and Service
2	29546	Mr. Christopher R. Beck	Bulk Discount Store
3	29660	Mr. Anthony Chor	Extreme Riding Supplies
4	29736	Mr. Terry Eminhizer	Action Bicycle Specialists
5	29796	Mr. Jon Grande	Riding Cycles
6	29922	Ms. Pamala M. Kotc	Closest Bicycle Store
7	29929	Mr. Jeffrey Kurtz	Many Bikes Store
8	29932	Ms. Rebecca Laszlo	Instruments and Parts Company
9	29938	Mr. Frank Campbell	Trailblazing Sports
10	29957	Mr. Kevin Liu	Eastside Department Store
11	30050	Mr. Krishna Sunkammur...	Metropolitan Bicycle Supply
12	30113	Mr. Raja D. Venugopal	Nearby Cycle Shop

13. List products with prices higher than the average product price.

```

Run Cancel Disconnect Change Database: db3praneet Estimated Plan Enable Actual Plan Parse
1 WITH ProductAverages AS (
2     SELECT
3         AVG(UnitPrice) AS AvgPrice
4     FROM
5         SalesLT.SalesOrderDetail
6 )
7
8 SELECT
9     P.ProductID,
10    P.Name,
11    P.ProductNumber,
12    P.ListPrice
13 FROM
14     SalesLT.Product P
15 JOIN
16     ProductAverages PA ON P.ListPrice > PA.AvgPrice;

```

Results Messages

	ProductID	Name	ProductNumber	ListPrice	AvgPrice
1	680	HL Road Frame - Black, 58	FR-R92B-58	1431.50	382.87
2	706	HL Road Frame - Red, 58	FR-R92R-58	1431.50	382.87
3	717	HL Road Frame - Red, 62	FR-R92R-62	1431.50	382.87
4	718	HL Road Frame - Red, 44	FR-R92R-44	1431.50	382.87
5	719	HL Road Frame - Red, 48	FR-R92R-48	1431.50	382.87
6	720	HL Road Frame - Red, 52	FR-R92R-52	1431.50	382.87
7	721	HL Road Frame - Red, 56	FR-R92R-56	1431.50	382.87
8	731	ML Road Frame - Red, 44	FR-R72R-44	594.83	382.87
9	732	ML Road Frame - Red, 48	FR-R72R-48	594.83	382.87
10	733	ML Road Frame - Red, 52	FR-R72R-52	594.83	382.87
11	734	ML Road Frame - Red, 58	FR-R72R-58	594.83	382.87
12	735	ML Road Frame - Red, 60	FR-R72R-60	594.83	382.87
13	739	HL Mountain Frame - Silv...	FR-M94S-42	1364.50	382.87
14	740	HL Mountain Frame - Silv...	FR-M94S-44	1364.50	382.87
15	741	HL Mountain Frame - Silv...	FR-M94S-52	1364.50	382.87
16	742	HL Mountain Frame - Silv...	FR-M94S-46	1364.50	382.87
17	743	HL Mountain Frame - Blac...	FR-M94B-42	1349.60	382.87
18	744	HL Mountain Frame - Blac...	FR-M94B-44	1349.60	382.87
19	745	HL Mountain Frame - Blac...	FR-M94B-48	1349.60	382.87
20	746	HL Mountain Frame - Blac...	FR-M94B-46	1349.60	382.87
21	747	HL Mountain Frame - Blac...	FR-M94B-38	1349.60	382.87

14. Retrieve orders placed by employees who have a specific job title. (DATA INSUFFICIENT)

15. Display customers who have placed orders for a specific product category.

```

Welcome | server3praneet.database.windows.net:db3praneet | SQLQuery_1 - server...badmin)
Run Cancel Disconnect Change | Database: db3praneet | Estimated Plan Enable Actual Plan
1 SELECT
2   c.CustomerID,
3   c.FirstName,
4   c.LastName
5 FROM
6   SalesLT.Customer c
7 JOIN
8   SalesLT.SalesOrderHeader oh ON c.CustomerID = oh.CustomerID JOIN
9   SalesLT.SalesOrderDetail od ON oh.SalesOrderID = od.SalesOrderID JOIN
10  SalesLT.Product p ON od.ProductID = p.ProductID
11 JOIN
12  SalesLT.ProductCategory pc ON p.ProductCategoryID =
13  pc.ProductCategoryID
14 WHERE
15  pc.ProductCategoryID = 18;
16

```

Results Messages

	CustomerID	FirstName	LastName
1	29796	Jon	Grande
2	29957	Kevin	Liu
3	29796	Jon	Grande
4	29957	Kevin	Liu
5	29847	David	Hodgson
6	29796	Jon	Grande
7	29957	Kevin	Liu
8	29796	Jon	Grande
9	29957	Kevin	Liu
10	29847	David	Hodgson

16. Find employees with salaries greater than the average salary in their department. (DATA INSUFFICIENT)
17. List customers who have placed orders before a specific date. (DATA INSUFFICIENT)
18. Retrieve the order with the highest quantity of a specific product.

```

Welcome | server3praneet.database.windows.net:db3praneet | SQLQuery_1 - server...badmin)
Run Cancel Disconnect Change | Database: db3praneet | Estimated Plan Enable Actual Pla
1 SELECT TOP 1
2   od.SalesOrderID,
3   od.ProductID,
4   p.Name AS ProductName,
5   SUM(od.OrderQty) AS TotalQuantity
6 FROM
7   SalesLT.SalesOrderDetail od
8 JOIN
9   SalesLT.Product p ON od.ProductID = p.ProductID
10 WHERE
11  od.ProductID = 714
12 GROUP BY
13  od.SalesOrderID, od.ProductID, p.Name
14 ORDER BY
15  TotalQuantity DESC;

```

Results		Messages		
	SalesOrderID	ProductID	ProductName	TotalQuantity
1	71784	714	Long-Sleeve Logo Jersey, M	9

19. Display products with prices lower than the lowest product price in a specific category.

```

Welcome  server3praneet.database.windows.net:db3praneet  SQLQuery_1 - server...badmin)
Run Cancel Disconnect Change Database: db3praneet Estimated Plan Enable Actual Plan

1  WITH ProductPrices AS
2  SELECT
3  p.ProductID,
4  p.Name AS ProductName,
5  p.ListPrice,
6  pc.ProductCategoryID
7  FROM
8  SalesLT.Product p
9  JOIN
10 SalesLT.ProductCategory pc ON p.ProductCategoryID =
11 pc.ProductCategoryID
12 WHERE
13 pc.ProductCategoryID = 18
14 )
15 SELECT
16 ProductID,
17 ProductName,
18 ListPrice
19 FROM
20 ProductPrices
21 WHERE
22 ListPrice < (SELECT MIN(ListPrice) FROM ProductPrices);

```

20. Find employees who have the same job title as their manager. (DATA INSUFFICIENT).

21. Combine results from two queries to get a list of unique customer and employee names. (DATA INSUFFICIENT).

22. Retrieve product names that are common in two different product categories. (DATA INSUFFICIENT).

23. Display the names of employees and customers in a single result set. (DATA INSUFFICIENT).

24. List products that are in stock or have been discontinued. (DATA INSUFFICIENT).

25. Combine the results of two queries to find unique products ordered by a specific customer. (DATA INSUFFICIENT)

```

Welcome server3praneet.database.windows.net:db3praneet SQLQuery_1 - server...badmin)
Run Cancel Disconnect Change Database: db3praneet Estimated Plan Enable Actual Plan
1 SELECT DISTINCT
2 p.ProductID,
3 p.Name AS ProductName
4 FROM
5 SalesLT.Product p
6 JOIN
7 SalesLT.SalesOrderDetail od ON p.ProductID = od.ProductID JOIN
8 SalesLT.SalesOrderHeader oh ON od.SalesOrderID = oh.SalesOrderID WHERE
9 oh.CustomerID = 29485
10 UNION
11 SELECT DISTINCT
12 p.ProductID,
13 p.Name AS ProductName
14 FROM
15 SalesLT.Product p
16 JOIN
17 SalesLT.SalesOrderDetail od ON p.ProductID = od.ProductID
18 ORDER BY
19 ProductID;
20
```

Results Messages		
	ProductID	ProductName
1	707	Sport-100 Helmet, Red
2	708	Sport-100 Helmet, Black
3	711	Sport-100 Helmet, Blue
4	712	AWC Logo Cap
5	714	Long-Sleeve Logo Jerse...
6	715	Long-Sleeve Logo Jerse...
7	716	Long-Sleeve Logo Jerse...
8	717	HL Road Frame - Red, 62
9	718	HL Road Frame - Red, 44
10	722	LL Road Frame - Black,...
11	738	LL Road Frame - Black,...
12	739	HL Mountain Frame - Si...

26. Retrieve orders placed by customers and employees in a single result set. (DATA INSUFFICIENT).

27. Display products that are either in a specific category or have a specific safety stock level. (DATA INSUFFICIENT).
28. List customers who have placed orders and employees who have direct reports in a single result set. (DATA INSUFFICIENT).
29. Retrieve products that are in stock in one location and out of stock in another. (DATA INSUFFICIENT).
30. Combine information about employees who are managers and employees who have managers. (DATA INSUFFICIENT).

INTERMEDIATE

31. Retrieve a list of customers along with the names of the products they have purchased.

SELECT

```
c.CustomerID,  
c.FirstName,  
c.LastName,  
p.Name AS ProductName
```

FROM

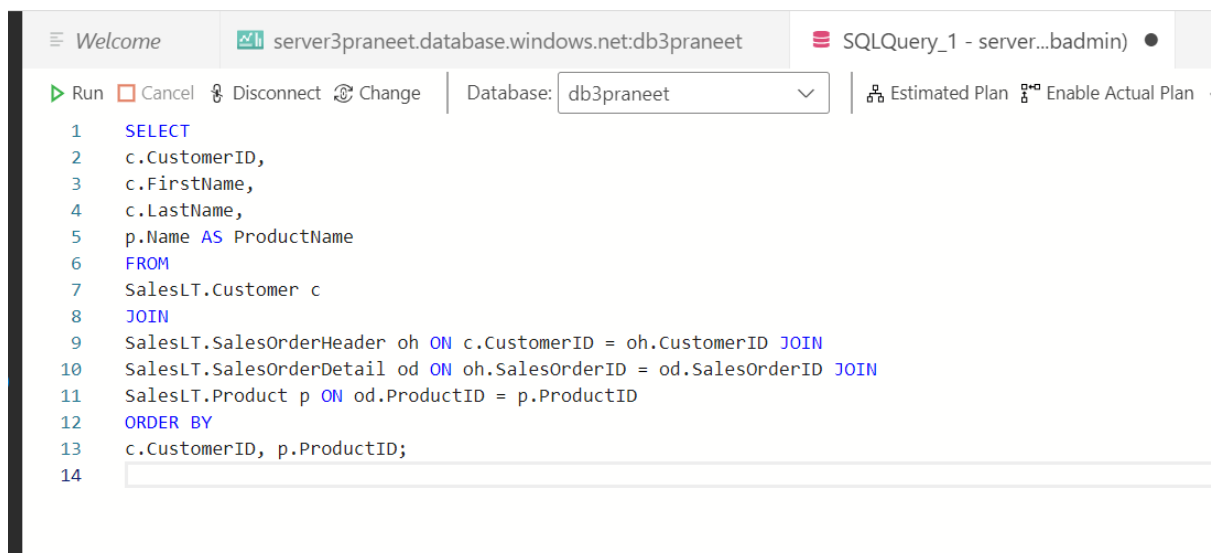
```
SalesLT.Customer c
```

JOIN

```
SalesLT.SalesOrderHeader oh ON c.CustomerID = oh.CustomerID JOIN  
SalesLT.SalesOrderDetail od ON oh.SalesOrderID = od.SalesOrderID JOIN  
SalesLT.Product p ON od.ProductID = p.ProductID
```

ORDER BY

```
c.CustomerID, p.ProductID;
```



Results Messages				
	CustomerID	FirstName	LastName	ProductName
1	29485	Catherine	Abel	Sport-100 Helmet, Red
2	29485	Catherine	Abel	Sport-100 Helmet, Black
3	29485	Catherine	Abel	Sport-100 Helmet, Blue
4	29485	Catherine	Abel	AWC Logo Cap
5	29485	Catherine	Abel	Long-Sleeve Logo Jersey, M
6	29485	Catherine	Abel	Long-Sleeve Logo Jersey, L
7	29485	Catherine	Abel	Half-Finger Gloves, M
8	29485	Catherine	Abel	Classic Vest, S
9	29485	Catherine	Abel	Classic Vest, M
10	29485	Catherine	Abel	Water Bottle - 30 oz.
11	29485	Catherine	Abel	Hitch Rack - 4-Bike
12	29485	Catherine	Abel	Bike Wash - Dissolver

32. Display employees who have the same manager, including indirect reports. (DATA INSUFFICIENT).

33. Find orders with multiple products and display the product names.

Run Cancel Disconnect Change Database: db3praneet				
1	SELECT			
2	oh.SalesOrderID,			
3	COUNT(DISTINCT od.ProductID) AS NumberOfProducts,			
4	STRING_AGG(p.Name, ', ') AS ProductNames			
5	FROM			
6	SalesLT.SalesOrderHeader oh			
7	JOIN			
8	SalesLT.SalesOrderDetail od ON oh.SalesOrderID = od.SalesOrderID JOIN			
9	SalesLT.Product p ON od.ProductID = p.ProductID			
10	GROUP BY			
11	oh.SalesOrderID			
12	HAVING			
13	COUNT(DISTINCT od.ProductID) > 1;			
14				

Results Messages			
	SalesOrderID	NumberOfProducts	ProductNames
1	71774	2	ML Road Frame-W - Yellow, 48, ML Road Frame-W - Yellow, 38
2	71780	29	LL Mountain Frame - Silver, 44, LL Mountain Frame - Black...
3	71782	43	HL Bottom Bracket, LL Bottom Bracket, Touring-3000 Blue, ...
4	71783	43	Short-Sleeve Classic Jersey, XL, Classic Vest, S, Classic...
5	71784	43	Touring-1000 Yellow, 60, Touring-1000 Yellow, 50, Touring...
6	71796	20	HL Touring Seat/Saddle, HL Touring Frame - Blue, 50, LL T...
7	71797	46	Road-750 Black, 52, Road-750 Black, 48, LL Road Pedal, HL...
8	71815	3	LL Road Frame - Black, 52, ML Road Frame-W - Yellow, 44, ...
9	71816	7	Short-Sleeve Classic Jersey, L, AWC Logo Cap, Long-Sleeve...
10	71831	3	Mountain-200 Black, 38, Women's Mountain Shorts, L, Women...
11	71832	30	Women's Mountain Shorts, S, LL Mountain Seat/Saddle, HL M...
12	71845	31	Mountain-500 Silver, 52, HL Bottom Bracket, HL Mountain P...
13	71846	4	HL Mountain Frame - Silver, 42, ML Mountain Pedal, Mounta...

34. List customers along with the names of the salespeople who handled their orders. (DATA INSUFFICIENT).
35. Retrieve a list of products along with the names of suppliers. (DATA INSUFFICIENT).
36. Display customers who have placed orders and the products they have purchased, including product details.

Welcome
server3praneet.database.windows.net:db3praneet
SQLQuery_1 - server...badmin

Run
Cancel
Disconnect
Change
Database: db3praneet
Estimated Plan
Enable Actual Pla

```

1  SELECT
2  c.CustomerID,
3  c.FirstName,
4  c.LastName,
5  oh.SalesOrderID,
6  p.ProductID,
7  p.Name AS ProductName,
8  od.OrderQty,
9  od.UnitPrice
10 FROM
11 SalesLT.Customer c
12 JOIN
13 SalesLT.SalesOrderHeader oh ON c.CustomerID = oh.CustomerID
14 JOIN
15 SalesLT.SalesOrderDetail od ON oh.SalesOrderID = od.SalesOrderID JOIN
16 SalesLT.Product p ON od.ProductID = p.ProductID
17 ORDER BY
18 c.CustomerID, oh.SalesOrderID, p.ProductID;
19

```

Results
Messages

	CustomerID	FirstName	LastName	SalesOrderID	ProductID	ProductName	OrderQty	UnitPrice
1	29485	Catherine	Abel	71782	707	Sport-100 Helmet, Red	3	20.994
2	29485	Catherine	Abel	71782	708	Sport-100 Helmet, Black	7	20.994
3	29485	Catherine	Abel	71782	711	Sport-100 Helmet, Blue	6	20.994
4	29485	Catherine	Abel	71782	712	AWC Logo Cap	10	5.394
5	29485	Catherine	Abel	71782	714	Long-Sleeve Logo Jersey, M	3	29.994
6	29485	Catherine	Abel	71782	715	Long-Sleeve Logo Jersey, L	8	29.994
7	29485	Catherine	Abel	71782	859	Half-Finger Gloves, M	1	14.694
8	29485	Catherine	Abel	71782	864	Classic Vest, S	6	38.10
9	29485	Catherine	Abel	71782	865	Classic Vest, M	4	38.10
10	29485	Catherine	Abel	71782	870	Water Bottle - 30 oz.	6	2.994
11	29485	Catherine	Abel	71782	876	Hitch Rack - 4-Bike	3	72.00
12	29485	Catherine	Abel	71782	877	Bike Wash - Dissolver	10	4.77
13	29485	Catherine	Abel	71782	880	Hydration Pack - 70 oz.	9	32.994
14	29485	Catherine	Abel	71782	881	Short-Sleeve Classic Jersey, S	6	32.394
15	29485	Catherine	Abel	71782	883	Short-Sleeve Classic Jersey, L	4	32.394

37. Find orders where multiple employees were involved, showing the employee names. (DATA INSUFFICIENT).
38. List products that have similar names but belong to different categories. (DATA INSUFFICIENT).
39. Retrieve a list of employees along with their training courses and training dates. (DATA INSUFFICIENT).
40. Display customers who have placed orders and the total quantity of each product ordered.

Welcome | server3praneet.database.windows.net:db3praneet | SQLQuery_1 - server...badmin)

Run Cancel Disconnect Change | Database: db3praneet | Estimated Plan Enable Actual Plan Parse

```

1  SELECT
2  c.CustomerID,
3  c.FirstName,
4  c.LastName,
5  p.ProductID,
6  p.Name AS ProductName,
7  SUM(od.OrderQty) AS TotalQuantity
8  FROM
9  SalesLT.Customer c
10 JOIN
11 SalesLT.SalesOrderHeader oh ON c.CustomerID = oh.CustomerID JOIN
12 SalesLT.SalesOrderDetail od ON oh.SalesOrderID = od.SalesOrderID JOIN
13 SalesLT.Product p ON od.ProductID = p.ProductID
14 GROUP BY
15 c.CustomerID, c.FirstName, c.LastName, p.ProductID, p.Name ORDER BY
16 c.CustomerID, p.ProductID;
17

```

Results		Messages				
	CustomerID	FirstName	LastName	ProductID	ProductName	TotalQuantity
1	29485	Catherine	Abel	707	Sport-100 Helmet, Red	3
2	29485	Catherine	Abel	708	Sport-100 Helmet, Black	7
3	29485	Catherine	Abel	711	Sport-100 Helmet, Blue	6
4	29485	Catherine	Abel	712	AWC Logo Cap	10
5	29485	Catherine	Abel	714	Long-Sleeve Logo Jerse...	3
6	29485	Catherine	Abel	715	Long-Sleeve Logo Jerse...	8
7	29485	Catherine	Abel	859	Half-Finger Gloves, M	1
8	29485	Catherine	Abel	864	Classic Vest, S	6
9	29485	Catherine	Abel	865	Classic Vest, M	4
10	29485	Catherine	Abel	870	Water Bottle - 30 oz.	6
11	29485	Catherine	Abel	876	Hitch Rack - 4-Bike	3
12	29485	Catherine	Abel	877	Bike Wash - Dissolver	10
13	29485	Catherine	Abel	880	Hydration Pack - 70 oz.	9
14	29485	Catherine	Abel	881	Short-Sleeve Classic J...	6
15	29485	Catherine	Abel	883	Short-Sleeve Classic J...	4

41. Find customers who have made more purchases than the average number of purchases. (DATA INSUFFICIENT).

42. Display products that have been ordered more than the average number of times.

Welcome | server3praneet.database.windows.net:db3praneet | SQLQuery_1 - server...l

Run Cancel Disconnect Change | Database: db3praneet | Estimated Plan

```

1  WITH ProductOrderCounts AS (
2  SELECT
3  p.ProductID,
4  p.Name AS ProductName,
5  COUNT(od.SalesOrderID) AS OrderCount
6  FROM
7  SalesLT.Product p
8  JOIN
9  SalesLT.SalesOrderDetail od ON p.ProductID = od.ProductID
10 GROUP BY
11 p.ProductID, p.Name
12 )
13 SELECT
14 ProductID,
15 ProductName,
16 OrderCount
17 FROM
18 ProductOrderCounts
19 WHERE
20 OrderCount > (SELECT AVG(OrderCount) FROM ProductOrderCounts);

```


Results Messages			
	ProductID	ProductName	OrderCount
1	712	AWC Logo Cap	9
2	877	Bike Wash - Dissolver	7
3	952	Chain	4
4	865	Classic Vest, M	6
5	864	Classic Vest, S	10
6	948	Front Brakes	7
7	945	Front Derailleur	6
8	859	Half-Finger Gloves, M	6
9	876	Hitch Rack - 4-Bike	8
10	996	HL Bottom Bracket	4
11	951	HL Crankset	4
12	743	HL Mountain Frame - ...	5
13	748	HL Mountain Frame - ...	5

43. Retrieve orders placed by employees who have completed a specific training course. (DATA INSUFFICIENT).
44. List employees who have a higher salary than at least one employee in another department. (DATA INSUFFICIENT).
45. Display products that have not been ordered in the last 60 days. (DATA INSUFFICIENT).
46. Find employees who have the same job title as the employee with the highest salary. (DATA INSUFFICIENT).
47. List customers who have placed orders with a total amount greater than the total amount of a specific order. (DATA INSUFFICIENT).
48. Retrieve products that have been ordered by customers with the same shipping address. (DATA INSUFFICIENT).
49. Display orders with quantities higher than the average quantity for a specific product.

```

WITH AvgQuantityPerProduct AS (
  SELECT
    od.ProductID,
    AVG(od.OrderQty) AS AvgQuantity
  FROM
    SalesLT.SalesOrderDetail od
  GROUP BY
    od.ProductID

```

)

```
SELECT
    od.SalesOrderID,
    od.ProductID,
    p.Name AS ProductName,
    od.OrderQty
FROM
    SalesLT.SalesOrderDetail od
JOIN
    SalesLT.Product p ON od.ProductID = p.ProductID
JOIN
    AvgQuantityPerProduct avgQ ON od.ProductID = avgQ.ProductID
WHERE
    od.OrderQty > avgQ.AvgQuantity
ORDER BY
    od.SalesOrderID, od.ProductID;
```

50. Find customers who have placed orders for products that have not been ordered by any other customer.

```
WITH ProductsOrderedByCustomers AS (
    SELECT DISTINCT
        od.ProductID
    FROM
        SalesLT.SalesOrderDetail od
)
SELECT
    c.CustomerID,
    c.FirstName,
    c.LastName,
    oh.SalesOrderID,
    p.ProductID,
    p.Name AS ProductName
FROM
    SalesLT.Customer c
JOIN
    SalesLT.SalesOrderHeader oh ON c.CustomerID = oh.CustomerID
JOIN
    SalesLT.SalesOrderDetail od ON oh.SalesOrderID = od.SalesOrderID
JOIN
    SalesLT.Product p ON od.ProductID = p.ProductID
WHERE
    p.ProductID NOT IN (SELECT ProductID FROM ProductsOrderedByCustomers)
ORDER BY
    c.CustomerID, oh.SalesOrderID, p.ProductID;
```