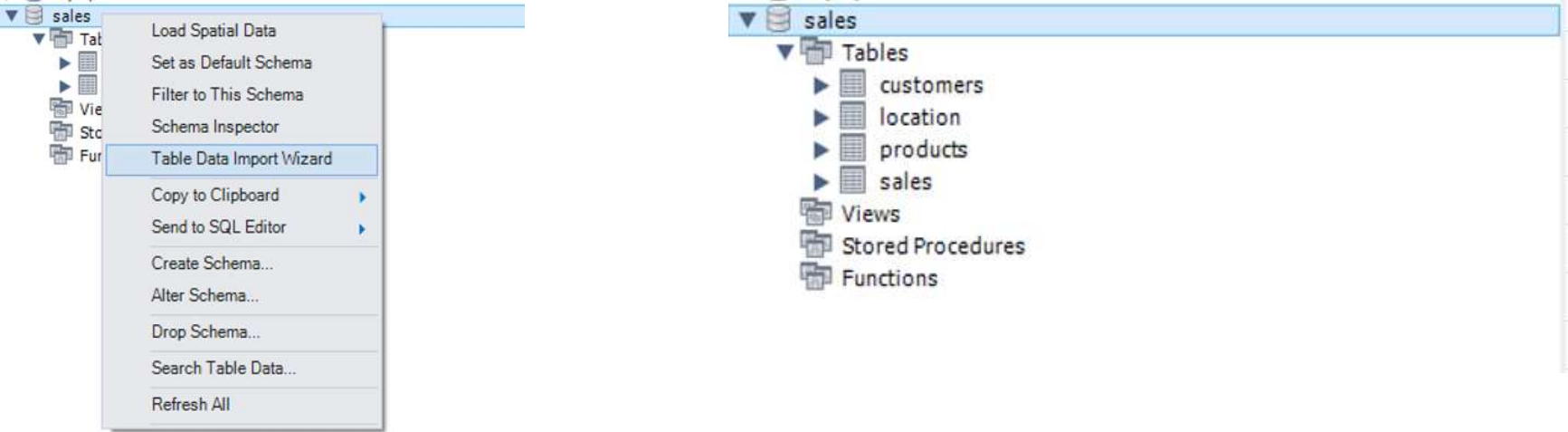


Creating schema

```
1 • CREATE SCHEMA IF NOT EXISTS sales;
```

Importing Tables



Checking All Tables

```
SELECT * FROM customers;
```

Returned 271 Rows

	customerid	customername
▶	CG-12520	Claire Gute
	DV-13045	Darrin Van Huff
	SO-20335	Sean O'Donnell

```
SELECT * FROM sales.location;
```

Returned 182 Rows

	postalcode	country	city	state	region
▶	42420	United States	Henderson	Kentucky	South
	90036	United States	Los Angeles	California	West
	33311	United States	Fort Lauderdale	Florida	South

```
SELECT * FROM sales.products;
```

Returned 582 Rows

	productid	category	subcategory	productname
▶	FUR-BO-10001798	Furniture	Bookcases	Bush Somerset Collection Bookcase
	FUR-CH-10000454	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...

```
SELECT * FROM sales.sales;
```

Returned 699 Rows

	rowid	orderid	orderdate	shipdate	shipmode	customerid	segment	postalcode	productid	sales	quantity	discount	profit
▶	1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Consumer	42420	FUR-BO-10001798	261.96	2	0	41.9136
	2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Consumer	42420	FUR-CH-10000454	731.94	3	0	219.582

Queries

- 1 Find Sales by category
- 2 Find sales by state and category
- 3 Sales by REGION
- 4 Sales by State and Segment
- 5 Top 10 Customers
- 6 10 Least sales states
- 7 Best shipping mode
- 8 Yearly sales of all categories
- 9 Top 10 states for Technology in 2016
- 10 Finding Top 10 Customers of Technology Categories

Find Sales by category

SELECT

p.category, ROUND(SUM(s.sales),2) AS total_sale

FROM

sales AS s

JOIN

products AS p ON s.productid = p.productid

GROUP BY p.category

ORDER BY total_sale DESC;

```
SELECT
```

p.category, ROUND(SUM(s.sales),2) AS total_sale

```
FROM
```

sales AS s

```
JOIN
```

products AS p ON s.productid = p.productid

```
GROUP BY p.category
```

```
ORDER BY total_sale DESC;
```

Result Grid		Filter Rows:
	category	total_sale
▶	Technology	73023.62
	Furniture	55939.63
	Office Supplies	51388.23

Find sales by state and category

```
SELECT
    state, category, ROUND(SUM(sales), 2) AS totalsale
FROM
    sales AS s
    JOIN
    location AS l ON l.postalcode = s.postalcode
    JOIN
    products AS p ON p.productid = s.productid
GROUP BY state , category
ORDER BY totalsale DESC;
```

```
SELECT
    state, category, ROUND(SUM(sales), 2) AS totalsale
FROM
    sales AS s
    JOIN
    location AS l ON l.postalcode = s.postalcode
    JOIN
    products AS p ON p.productid = s.productid
GROUP BY state , category
ORDER BY totalsale DESC;
```

	state	category	totalsale
►	Texas	Technology	17604.8
	California	Furniture	12988.81
	California	Technology	12655.98
	New York	Office Supplies	8862.6
	North Carolina	Technology	8802.79
	Georgia	Office Supplies	7081.31
	Texas	Furniture	6974.02
	California	Office Supplies	6645.71

Sales by Region

```
SELECT
    l.region, ROUND(SUM(s.sales),2) AS total_sales
FROM sales AS s
JOIN
    location AS l ON l.postalcode = s.postalcode
GROUP BY region
ORDER BY total_sales DESC;
```

```
SELECT
    l.region, ROUND(SUM(s.sales),2) AS total_sales
FROM sales AS s
JOIN
    location AS l ON l.postalcode = s.postalcode
GROUP BY region
ORDER BY total_sales DESC;
```

	region	total_sales
►	West	55270.47
	Central	53997.23
	East	39575.96
	South	31507.83

Sales by State and Segment

```
SELECT
    l.state,
    ROUND(SUM(CASE WHEN s.segment = 'Consumer' THEN s.sales ELSE 0 END),2) AS consumer,
    ROUND(SUM(CASE WHEN s.segment = 'Corporate' THEN s.sales ELSE 0 END),2) AS corporate,
    ROUND(SUM(CASE WHEN s.segment = 'Home office' THEN s.sales ELSE 0 END),2) AS homeoffice
FROM
    sales AS s
JOIN
    location AS l ON l.postalcode = s.postalcode
GROUP BY
    l.state;
```

SELECT

```
    l.state,
    ROUND(SUM(CASE WHEN s.segment = 'Consumer' THEN s.sales ELSE 0 END),2) AS consumer,
    ROUND(SUM(CASE WHEN s.segment = 'Corporate' THEN s.sales ELSE 0 END),2) AS corporate,
    ROUND(SUM(CASE WHEN s.segment = 'Home office' THEN s.sales ELSE 0 END),2) AS homeoffice
```

FROM

```
    sales AS s
```

JOIN

```
    location AS l ON l.postalcode = s.postalcode
```

GROUP BY

```
    l.state;
```

	state	consumer	corporate	homeoffice
►	Kentucky	1807.41	5.78	0
	California	25767	4138.36	2385.13
	Florida	2386.8	1699.62	2465.5
	North Carolina	140.42	8476.38	895.06
	Washington	4988.78	1723.69	6.63
	Texas	18052.46	8105.82	2231.05
	Wisconsin	1134.78	2657.81	0
	Utah	1105.09	0	0
	Nebraska	0	79.8	0
	Pennsylvania	6324.04	2168.75	547.01
	Illinois	5489.54	1831.61	3394.98
	Minnesota	149.33	160.16	3745.63
	Michigan	1374.09	2768.14	70.12
	Delaware	554.3	0	0
	Indiana	412.19	0	209.3

Top 10 Customers

```
WITH t1 AS(
SELECT
    c.customername, ROUND(SUM(s.sales), 2) AS sales
FROM
    sales AS s
    JOIN
        customers AS c ON c.customerid = s.customerid
GROUP BY c.customername),
t2 AS
( SELECT *, DENSE_RANK() OVER(ORDER BY sales DESC) as rnk_num FROM t1)
SELECT
    *
FROM
    t2
WHERE
    rnk_num <= 10;
```

```
WITH t1 AS(
SELECT
    c.customername, ROUND(SUM(s.sales), 2) AS sales
FROM
    sales AS s
    JOIN
        customers AS c ON c.customerid = s.customerid
GROUP BY c.customername),
t2 AS
( SELECT *, DENSE_RANK() OVER(ORDER BY sales DESC) as rnk_num FROM t1)
SELECT
    *
FROM
    t2
WHERE
    rnk_num <= 10;
```

Result Grid				Filter Rows:	Export:
	customername	sales	rnk_num		
▶	Becky Martin	10539.9	1		
	Grant Thornton	8167.42	2		
	Christopher Martinez	6412.77	3		
	Sean Braxton	5579.94	4		
	Nathan Mautz	4807.37	5		
	Alan Dominguez	4789.94	6		
	Adam Bellavance	4438.69	7		
	Keith Herrera	3955.51	8		
	Tracy Blumstein	3761.15	9		
	Dianna Wilson	3745.63	10		

10 Least sales states

```
WITH t1 AS
(SELECT
  l.state, ROUND(SUM(s.sales), 2) AS sale
FROM
  sales AS s
  JOIN
    location AS l ON s.postalcode = l.postalcode
GROUP BY l.state),
t2 AS
( SELECT *, DENSE_RANK() OVER(ORDER BY sale ASC) AS rnk_state FROM t1
)
SELECT * FROM t2
WHERE rnk_state <=10 ;
```

```
WITH t1 AS
( SELECT
  l.state, ROUND(SUM(s.sales), 2) AS sale
FROM
  sales AS s
  JOIN
    location AS l ON s.postalcode = l.postalcode
GROUP BY l.state),
t2 AS
( SELECT *, DENSE_RANK() OVER(ORDER BY sale ASC) AS rnk_state FROM t1
)
SELECT * FROM t2
WHERE rnk_state <=10 ;
```

Result Grid			
Filter Rows:			
	state	sale	rnk_state
▶	New Mexico	28,4	1
	Rhode Island	62.92	2
	Nevada	75.79	3
	Nebraska	79.8	4
	Iowa	103.2	5
	Arkansas	105.42	6
	South Carolina	301.96	7
	Virginia	506.44	8
	Oregon	551.06	9
	Delaware	554.3	10

Best shipping mode

```
SELECT
  shipmode, ROUND(SUM(sales), 2) AS total_sale
FROM
  sales
GROUP BY shipmode
ORDER BY total_sale DESC
LIMIT 1;
```

```
SELECT
  shipmode, ROUND(SUM(sales), 2) AS total_sale
FROM
  sales
GROUP BY shipmode
ORDER BY total_sale DESC
LIMIT 1;
```

Result Grid		
Filter Rows:		
	shipmode	total_sale
▶	Standard Class	106033.52

Yearly sales of all categories

```
SELECT
  p.category,
  ROUND(SUM(CASE
    WHEN (YEAR(s.shipdate)) = 2014 THEN s.sales
    ELSE 0
  END),
  2) AS '2014',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2015 THEN s.sales
    ELSE 0
  END),
  2) AS '2015',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2016 THEN s.sales
    ELSE 0
  END),
  2) AS '2016',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2017 THEN s.sales
    ELSE 0
  END),
  2) AS '2017',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2018 THEN s.sales
    ELSE 0
  END),
  2) AS '2018'
FROM
  sales AS s
  JOIN
    products AS p ON s.productid = p.productid
GROUP BY p.category;
```

```
SELECT
  p.category,
  ROUND(SUM(CASE
    WHEN (YEAR(s.shipdate)) = 2014 THEN s.sales
    ELSE 0
  END),
  2) AS '2014',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2015 THEN s.sales
    ELSE 0
  END),
  2) AS '2015',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2016 THEN s.sales
    ELSE 0
  END),
  2) AS '2016',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2017 THEN s.sales
    ELSE 0
  END),
  2) AS '2017',
  ROUND(SUM(CASE
    WHEN YEAR(s.shipdate) = 2018 THEN s.sales
    ELSE 0
  END),
  2) AS '2018'
FROM
  sales AS s
  JOIN
    products AS p ON s.productid = p.productid
GROUP BY p.category;
```

Result Grid						
		Filter Rows:		Export:		Wrap Cell Content:
	category	2014	2015	2016	2017	2018
▶	Furniture	10455.07	15712.2	18683	11089.36	0
	Office Supplies	8102.79	15637.05	16749.25	9844.33	1054.81
	Technology	33100.33	7876.18	15425.26	16606.99	14.85

Top 10 states for Technology in 2016

```
SELECT
  l.state, ROUND(SUM(s.sales), 2) AS totalsales
FROM
  sales AS s
  JOIN
    location AS l ON s.postalcode = l.postalcode
  JOIN
    products AS p ON s.productid = p.productid
WHERE
  YEAR(s.shipdate) = 2016
  AND p.category = 'Technology'
GROUP BY l.state
ORDER BY totalsales DESC
LIMIT 10;
```

```
SELECT
  l.state, ROUND(SUM(s.sales), 2) AS totalsales
FROM
  sales AS s
  JOIN
    location AS l ON s.postalcode = l.postalcode
  JOIN
    products AS p ON s.productid = p.productid
WHERE
  YEAR(s.shipdate) = 2016
  AND p.category = 'Technology'
GROUP BY l.state
ORDER BY totalsales DESC
LIMIT 10;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	state	totalsales			
►	California	4131.09			
	Pennsylvania	1741			
	Texas	1524.7			
	Illinois	1464.16			
	New York	1101.86			
	Oklahoma	1008.81			
	Alabama	979.95			
	Washington	712.36			
	North Carolina	700.7			
	Arizona	584.05			

Finding Top 10 Customers of Technology Categories

```
SELECT
    c.customername, ROUND(SUM(s.sales), 2) AS totalsales
FROM
    sales AS s
    JOIN
        customers AS c ON s.customerid = c.customerid
    JOIN
        products AS p ON s.productid = p.productid
WHERE
    p.category = 'Technology'
GROUP BY c.customername
ORDER BY totalsales DESC
LIMIT 10;
```

```
SELECT
    c.customername, ROUND(SUM(s.sales), 2) AS totalsales
FROM
    sales AS s
    JOIN
        customers AS c ON s.customerid = c.customerid
    JOIN
        products AS p ON s.productid = p.productid
WHERE
    p.category = 'Technology'
GROUP BY c.customername
ORDER BY totalsales DESC
LIMIT 10;
```

Result Grid			Filter Rows:
	customername	totalsales	
▶	Becky Martin	8303.93	
	Grant Thornton	7999.98	
	Sean Braxton	5579.94	
	Nathan Mautz	4627.92	
	Kelly Collister	3347.37	
	Alan Dominguez	2999.95	
	Sue Ann Reed	2735.95	
	Jack Garza	2046.35	
	Brosina Hoffman	1818.58	
	Lena Radford	1645.94	