

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

SQLiciousDB Execute

Object Explorer

- Graph Tables
- dbo.members
 - Columns
 - customer_id (varchar(1), null)
 - customer_name (varchar(50), null)
 - join_date (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.menu
 - Columns
 - product_id (int, null)
 - product_name (varchar(20), null)
 - price (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.sales
 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))*

--Question- 1. What is the total amount each customer spent at the restaurant?

```
select m.customer_id,m.customer_name,sum(price) as Total_spending
from members as m
inner join sales as s on m.customer_id = s.customer_id
inner join menu on s.product_id = menu.product_id
group by m.customer_id,m.customer_name
order by Total_spending desc;
```

144 %

Results

	customer_id	customer_name	Total_spending
1	a	Vinay kumar panika	1640
2	b	Awadhesh yadav	1520
3	c	Nevendra rajput	840

Query executed successfully.

VINAY\SQLEXPRESS (16.0 RTM) | VINAY\vinay (51) | SQLiciousDB | 00:00:00 | 3 rows

Ready Ln 67 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

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SQLQuery2.sql - VIN...(VINAY\vinay (51))*

```
-- Question- 2. How many days has each customer visited the restaurant?

select m.customer_id,m.customer_name,
count(distinct s.order_date) as days_visited from members as m
inner join sales as s on m.customer_id = s.customer_id
group by m.customer_id,m.customer_name
order by days_visited desc;
```

144 %

Results Messages

	customer_id	customer_name	days_visited
1	b	Awadhesh yadav	6
2	a	Vinay kumar panika	4
3	c	Nevendra rajput	2

Query executed successfully.

VINAY\SQLEXPRESS (16.0 RTM) | VINAY\vinay (51) | SQLiciousDB | 00:00:00 | 3 rows

Ready Ln 77 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

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 - Statistics
- dbo.sales
 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
-- Question- 3. What was the first item from the menu purchased by each customer?

with cte_first_item as (
    select m.customer_name,mn.product_name,s.order_date,
           dense_rank() over( partition by m.customer_name order by s.order_date asc) as Ranking
    from members as m
    inner join sales as s on m.customer_id = s.customer_id
    inner join menu as mn on s.product_id = mn.product_id)
select customer_name,product_name,order_date from cte_first_item
where ranking = 1
group by customer_name,product_name,order_date;
```

131 %

Results Messages

	customer_name	product_name	order_date
1	Awadhesh yadav	veg biryani	2025-02-01
2	Nevendra rajput	chilli paneer	2025-02-01
3	Vinay kumar panika	masala dosa	2025-02-01
4	Vinay kumar panika	veg biryani	2025-02-01

Query executed successfully.

VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLiciousDB 00:00:00 4 rows

Ready Ln 90 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

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- dbo.sales
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 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
/* Question- 4. What is the most purchased item on the menu and how many times was it purchased by all customers? */  
  
select top 1 mn.product_id,mn.product_name,count(s.product_id) as order_count  
from menu as mn  
inner join sales as s on mn.product_id = s.product_id  
group by mn.product_id,mn.product_name  
order by order_count desc;
```

131 %

Results Messages

	product_id	product_name	order_count
1	3	chilli paneer	8

Query executed successfully.

VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLiciousDB 00:00:00 1 rows

Ready Ln 100 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

SQLLiciousDB Execute

Object Explorer

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 - Columns
 - customer_id (varchar(1), null)
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 - join_date (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.menu
 - Columns
 - product_id (int, null)
 - product_name (varchar(20), null)
 - price (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.sales
 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
-- Question- 5. Which item was the most popular for each customer?
with cte_popularity as (
    select s.customer_id,mn.product_name,count(mn.product_id) as order_count,
    dense_rank() over(partition by s.customer_id order by count(mn.product_id) desc) as ranking
    from sales as s
    inner join menu as mn on s.product_id = mn.product_id
    group by s.customer_id,mn.product_name)
select cp.customer_id,m.customer_name,cp.product_name,
cp.order_count from cte_popularity as cp
inner join members as m on m.customer_id = cp.customer_id
where ranking = 1;
```

119 %

Results Messages

	customer_id	customer_name	product_name	order_count
1	a	Vinay kumar panika	chilli paneer	3
2	b	Awadhesh yadav	masala dosa	2
3	b	Awadhesh yadav	chilli paneer	2
4	b	Awadhesh yadav	veg biryani	2
5	c	Nevendra rajput	chilli paneer	3

Query executed successfully. VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLLiciousDB 00:00:00 5 rows

Ready Ln 113 Col 19 Ch 19 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

SQLiciousDB Execute

Object Explorer

Connect

- Graph Tables
- dbo.members
 - Columns
 - customer_id (varchar(1), null)
 - customer_name (varchar(50), null)
 - join_date (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.menu
 - Columns
 - product_id (int, null)
 - product_name (varchar(20), null)
 - price (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.sales
 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
-- Question- 6. What is the first item purchased after becoming a member?
with cte_first_item as (
    select s.customer_id,mn.product_name,s.order_date,m.join_date,
    dense_rank() over (partition by s.customer_id order by s.order_date asc) as ranking
    from sales as s
    inner join menu as mn on s.product_id = mn.product_id
    inner join members as m on m.customer_id = s.customer_id
    where order_date>=join_date)
select customer_id,product_name from cte_first_item
where ranking = 1;
```

119 %

Results Messages

	customer_id	product_name
1	a	veg biryani
2	b	masala dosa

Query executed successfully. VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLiciousDB 00:00:00 2 rows

Ready Ln 126 Col 19 Ch 19 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLliciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

SQLliciousDB Execute

Object Explorer

- Graph Tables
- dbo.members
 - Columns
 - customer_id (varchar(1), null)
 - customer_name (varchar(50), null)
 - join_date (date, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.menu
 - Columns
 - product_id (int, null)
 - product_name (varchar(20), null)
 - price (int, null)
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.sales
 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
--Question- 7. Which customer has made the most purchases before becoming a member?

select s.customer_id, count(*) as order_count from sales as s
inner join members as m on s.customer_id = m.customer_id
where s.order_date < m.join_date
group by s.customer_id
order by order_count desc;
```

131 %

Results Messages

	customer_id	order_count
1	b	3
2	c	3
3	a	2

Query executed successfully. VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLliciousDB 00:00:00 3 rows

Ready Ln 136 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLliciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

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SQLliciousDB Execute

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 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
-- Question- 8. Rank all the customers based on the total money spent at the restaurant?

with cte_spending as (
    select s.customer_id, sum(mn.price) as total_spending,
           rank() over( order by sum(mn.price) desc) as ranking
    from sales as s
         inner join menu as mn on s.product_id = mn.product_id
    group by s.customer_id)
select cte.customer_id, m.customer_name, cte.total_spending from cte_spending as cte
inner join members as m on cte.customer_id = m.customer_id;
```

131 %

Results Messages

	customer_id	customer_name	total_spending
1	a	Vinay kumar panika	1640
2	b	Awadhesh yadav	1520
3	c	Nevendra rajput	840

Query executed successfully. VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLliciousDB 00:00:00 3 rows

Ready Ln 148 Col 60 Ch 60 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

SQLiciousDB Execute

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 - product_id (int, null)
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 - price (int, null)
 - Keys
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 - Indexes
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- dbo.sales
 - Columns
 - customer_id (varchar(1), null)
 - order_date (date, null)
 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
--Question- 9. What is the total number of products ordered by each customer?

select s.customer_id,m.customer_name, count(mn.product_id) as product_order
from sales as s
inner join menu as mn on s.product_id = mn.product_id
inner join members as m on m.customer_id = s.customer_id
group by s.customer_id,m.customer_name;
```

131 %

Results Messages

	customer_id	customer_name	product_order
1	a	Vinay kumar panika	6
2	b	Awadhesh yadav	6
3	c	Nevendra rajput	3

Query executed successfully.

VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLiciousDB 00:00:00 3 rows

Ready Ln 149 Col 1 Ch 1 INS

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 - customer_id (varchar(1), null)
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 - product_id (int, null)
 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

--Question- 10. What percentage of total revenue came from each product?

```
select mn.product_name, sum(mn.price) as product_total,
(sum(mn.price)*100.0/(select sum(mn.price) from menu as mn
inner join sales as s on s.product_id = mn.product_id)) as percentage_of_revenue
from menu as mn
inner join sales as s on s.product_id = mn.product_id
group by mn.product_name
order by percentage_of_revenue desc;
```

144 %

Results Messages

	product_name	product_total	percentage_of_revenue
1	chilli paneer	2240	56.000000000000
2	veg biryani	1280	32.000000000000
3	masala dosa	480	12.000000000000

Query executed successfully. VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLiciousDB 00:00:00 3 rows

Ready Ln 169 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLiciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

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 - Keys

SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
-- Question- 11. How many unique products did each customer order?

select s.customer_id,m.customer_name,count(distinct mn.product_id) as unique_order
from sales as s
inner join menu as mn on s.product_id = mn.product_id
inner join members as m on m.customer_id = s.customer_id
group by s.customer_id, m.customer_name
order by unique_order desc;
```

144 %

Results Messages

	customer_id	customer_name	unique_order
1	b	Awadhesh yadav	3
2	a	Vinay kumar panika	3
3	c	Nevendra rajput	1

Query executed successfully. VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLiciousDB 00:00:00 3 rows

Ready Ln 178 Col 1 Ch 1 INS

SQLQuery2.sql - VINAY\SQLEXPRESS.SQLliciousDB (VINAY\vinay (51))* - Microsoft SQL Server Management Studio

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SQLQuery2.sql - VIN...(VINAY\vinay (51))* SQLQuery3.sql - VIN...(VINAY\vinay (68))*

```
-- Question- 12. Which customers ordered different products on the same day?

select customer_id, order_date
from sales
group by customer_id, order_date
having count(distinct product_id) > 1;
```

144 %

Results Messages

	customer_id	order_date
1	a	2025-02-01

Query executed successfully.

VINAY\SQLEXPRESS (16.0 RTM) VINAY\vinay (51) SQLliciousDB 00:00:00 1 rows

Ready Ln 187 Col 1 Ch 1 INS