```sql
create database Shopping;

use Shopping;

show tables;

select * from shopping_trends;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

Customer ID	Age	Gender	Item Purchased	Category	Purchase Amount (USD)	Location	Size	Color	Season	Review Rating	Subscription Status	Payment Method	Shipping Type	Discount Applied	Promo Code Used	Previous Purchases	Preferred Payment Method	Frequency of Purchases
1	55	Male	Blouse	Clothing	53	Kentucky	L	Gray	Winter	3.1	Yes	Credit Card	Express	Yes	Yes	14	Venmo	Fortnightly
2	19	Male	Sweater	Clothing	64	Maine	L	Maroon	Winter	3.1	Yes	Bank Transfer	Express	Yes	Yes	2	Cash	Fortnightly
3	50	Male	Jeans	Clothing	73	Massachusetts	S	Maroon	Spring	3.1	Yes	Cash	Free Shipping	Yes	Yes	23	Credit Card	Weekly
4	21	Male	Sandals	Footwear	90	Rhode Island	M	Maroon	Spring	3.5	Yes	PayPal	Next Day Air	Yes	Yes	49	PayPal	Weekly
5	45	Male	Blouse	Clothing	49	Oregon	M	Turquoise	Spring	2.7	Yes	Cash	Free Shipping	Yes	Yes	31	PayPal	Annually
6	46	Male	Sneakers	Footwear	20	Wyoming	M	White	Summer	2.9	Yes	Venmo	Standard	Yes	Yes	14	Venmo	Weekly
7	63	Male	Shirt	Clothing	85	Montana	M	Gray	Fall	3.2	Yes	Debit Card	Free Shipping	Yes	Yes	49	Cash	Quarterly
8	27	Male	Shorts	Clothing	34	Louisiana	L	Charcoal	Winter	3.2	Yes	Debit Card	Free Shipping	Yes	Yes	19	Credit Card	Weekly
9	26	Male	Coat	Outerwear	97	West Virginia	L	Silver	Summer	2.6	Yes	Venmo	Express	Yes	Yes	8	Venmo	Annually
10	57	Male	Handbag	Accessories	31	Missouri	M	Pink	Spring	4.8	Yes	PayPal	2-Day Shipping	Yes	Yes	4	Cash	Quarterly
11	53	Male	Shoes	Footwear	34	Arkansas	L	Purple	Fall	4.1	Yes	Credit Card	Store Pickup	Yes	Yes	26	Bank Transfer	Bi-Weekly
12	30	Male	Shorts	Clothing	68	Hawaii	S	Olive	Winter	4.9	Yes	PayPal	Store Pickup	Yes	Yes	10	Bank Transfer	Fortnightly
13	61	Male	Coat	Outerwear	72	Delaware	M	Gold	Winter	4.5	Yes	PayPal	Express	Yes	Yes	37	Venmo	Fortnightly
14	65	Male	Dress	Clothing	51	New Hampshire	M	Violet	Spring	4.7	Yes	Debit Card	Express	Yes	Yes	31	PayPal	Weekly
15	64	Male	Coat	Outerwear	53	New York	L	Teal	Winter	4.7	Yes	PayPal	Free Shipping	Yes	Yes	34	Debit Card	Weekly
16	64	Male	Skirt	Clothing	81	Rhode Island	M	Teal	Winter	2.8	Yes	Credit Card	Store Pickup	Yes	Yes	8	PayPal	Monthly
17	25	Male	Sunglasses	Accessories	36	Alabama	S	Gray	Spring	4.1	Yes	2-Day Sh	Next Day Air	Yes	Yes	44	Debit Card	Bi-Weekly
18	53	Male	Dress	Clothing	38	Mississippi	XL	Lavender	Winter	4.7	Yes	Debit Card	2-Day Shipping	Yes	Yes	36	Venmo	Quarterly
19	52	Male	Sweater	Clothing	48	Montana	S	Black	Summer	4.6	Yes	Bank Transfer	Free Shipping	Yes	Yes	17	Cash	Weekly
20	66	Male	Pants	Clothing	90	Rhode Island	M	Green	Summer	3.3	Yes	Venmo	Standard	Yes	Yes	46	Debit Card	Bi-Weekly
21	21	Male	Pants	Clothing	51	Louisiana	M	Black	Winter	2.8	Yes	Credit Card	Express	Yes	Yes	50	Cash	Every 3 Months

```
20 •    describe shopping_trends
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
Customer ID	int	YES		NULL	
Age	int	YES		NULL	
Gender	text	YES		NULL	
Item Purchased	text	YES		NULL	
Category	text	YES		NULL	
Purchase Amount (USD)	int	YES		NULL	
Location	text	YES		NULL	
Size	text	YES		NULL	
Color	text	YES		NULL	
Season	text	YES		NULL	
Review Rating	double	YES		NULL	
Subscription Status	text	YES		NULL	
Payment Method	text	YES		NULL	
Shipping Type	text	YES		NULL	

```sql
-- 1. Total revenue and average purchase amount

SELECT
    sum(`Purchase Amount (USD)`) AS total_revenue,
    avg(`Purchase Amount (USD)`) AS avg_purchase
FROM shopping_trends;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Cont

total_revenue	avg_purchase
233081.00	59.764359

```sql
-- 2. count of total purchases in each category

SELECT category, COUNT(*) AS total_purchases
FROM shopping_trends
GROUP BY category
ORDER BY total_purchases DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell

category	total_purchases
Clothing	1737
Accessories	1240
Footwear	599
Outerwear	324

```sql
-- 3. Average spending by gender

SELECT gender, avg(`Purchase Amount (USD)`) AS avg_spending
FROM shopping_trends
GROUP BY gender;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

gender	avg_spending
Male	59.536199
Female	60.249199

```sql
34      -- 4. Revenue by season
35
36 •    SELECT season,  SUM(`Purchase Amount (USD)`) AS season_revenue
37      FROM shopping_trends
38      GROUP BY season
39      ORDER BY season_revenue DESC;
40
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

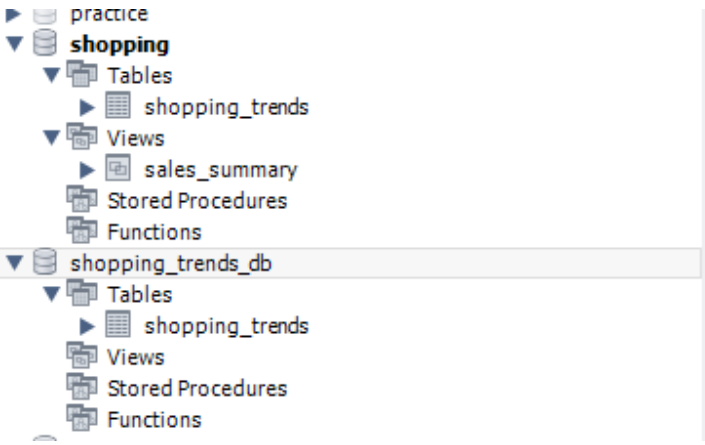
season	season_revenue
Fall	60018.00
Spring	58679.00
Winter	58607.00
Summer	55777.00

```sql
-- 5. Best-selling item in each category

SELECT category, 'item purchased', COUNT(*) AS total_sales
FROM shopping_trends
GROUP BY category, 'item purchased'
HAVING total_sales = (
    SELECT MAX(item_count)
    FROM (
        SELECT category AS cat, 'item purchased', COUNT(*) AS item_count
        FROM shopping_trends
        GROUP BY category, 'item purchased'
    ) AS sub
    WHERE sub.cat = shopping_trends.category
);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	item purchased	total_sales
Clothing	item purchased	1737
Footwear	item purchased	599
Outerwear	item purchased	324
Accessories	item purchased	1240




```sql
-- 6. Create a view

CREATE VIEW sales_summary AS
SELECT
    category,
    season,
    SUM(`Purchase Amount (USD)`) AS total_revenue,
    AVG('review rating') AS avg_rating
FROM shopping_trends
GROUP BY category, season;
```