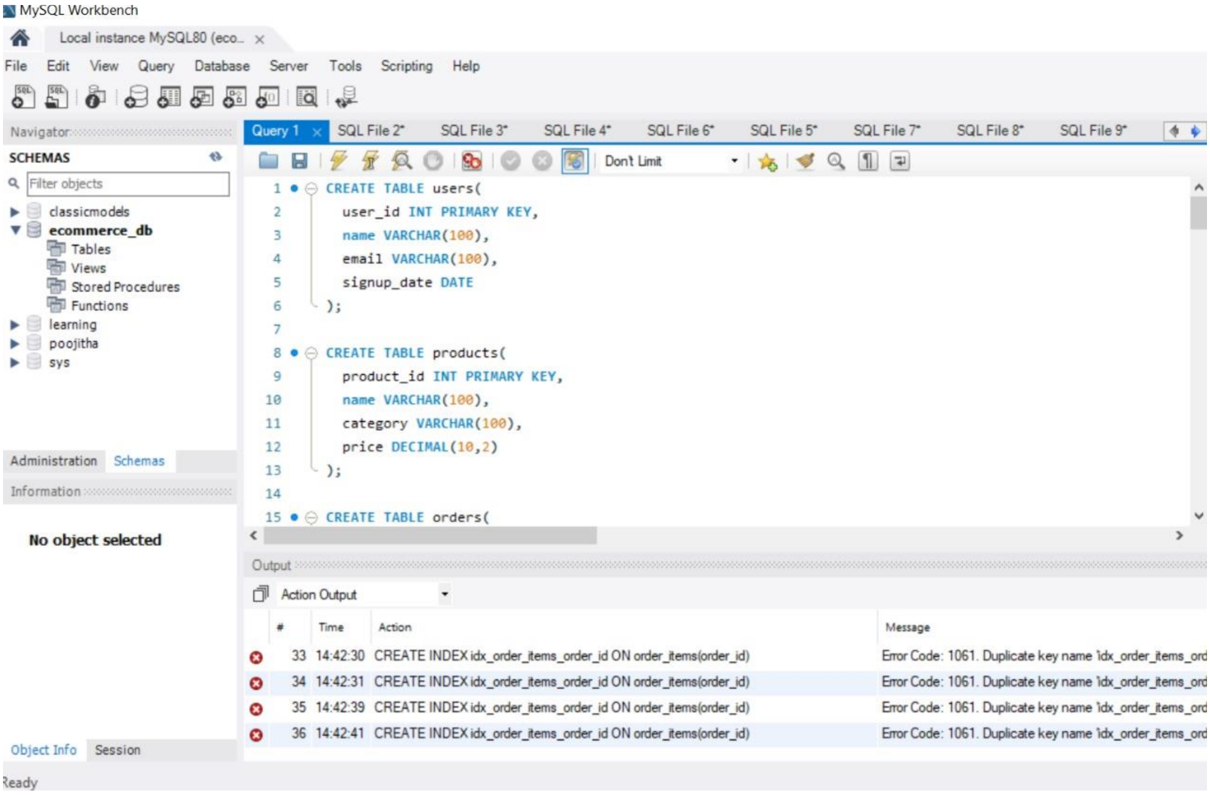
TASK 3

CREATING A TABLE AND INSERTING THE VALUES



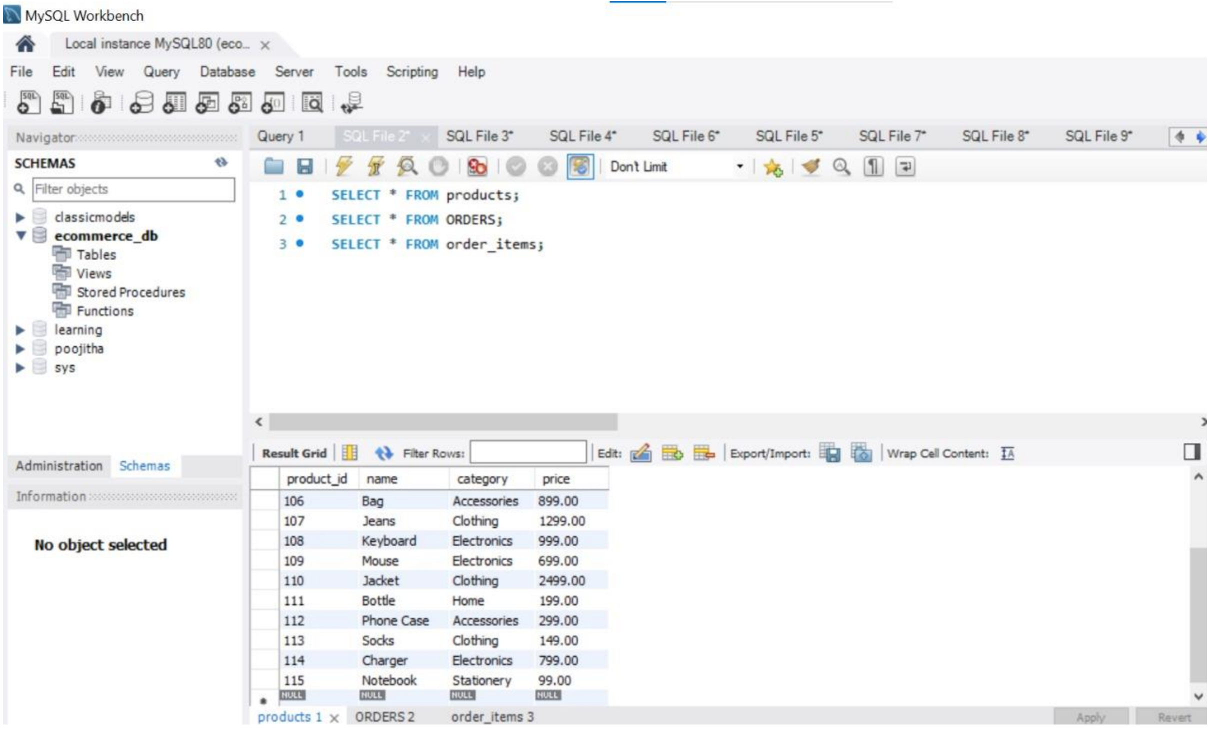
```sql
CREATE TABLE users(
    user_id INT PRIMARY KEY,
    name VARCHAR(100),
    email VARCHAR(100),
    signup_date DATE
);

CREATE TABLE products(
    product_id INT PRIMARY KEY,
    name VARCHAR(100),
    category VARCHAR(100),
    price DECIMAL(10,2)
);

CREATE TABLE orders(
```

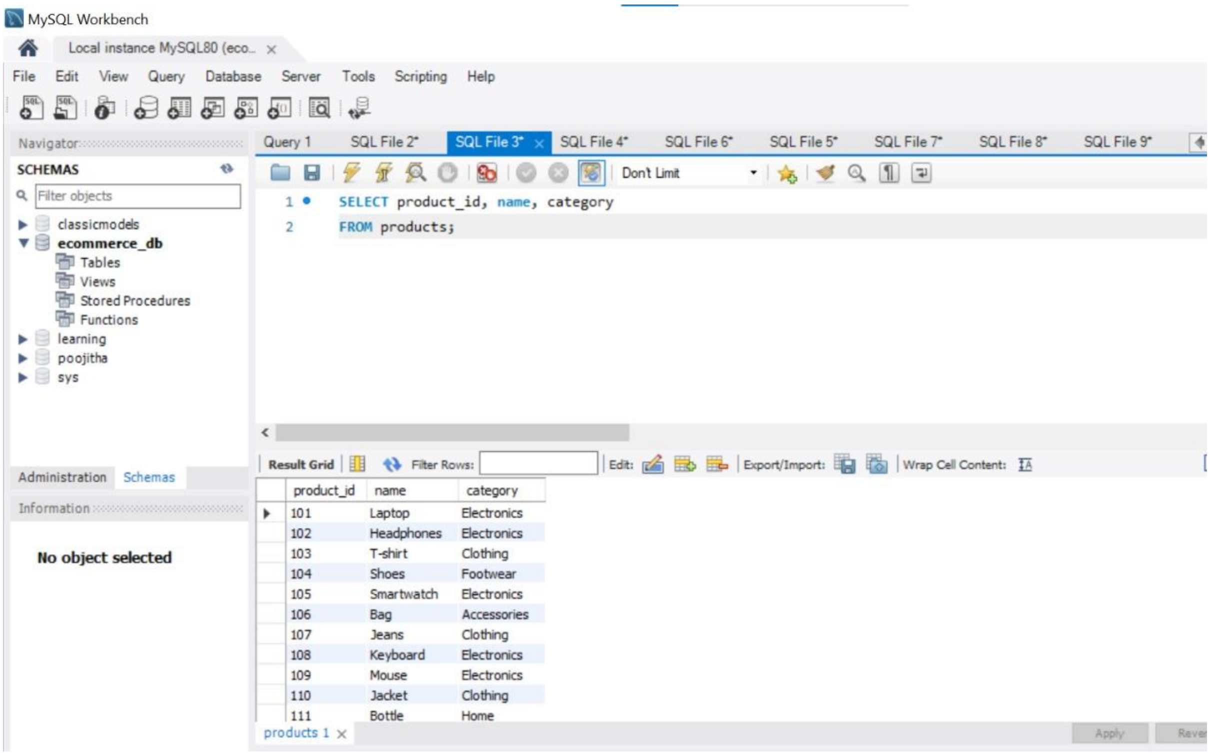
```
#   Time      Action                                                      Message
33  14:42:30  CREATE INDEX idx_order_items_order_id ON order_items(order_id)  Error Code: 1061. Duplicate key name 'idx_order_items_ord
34  14:42:31  CREATE INDEX idx_order_items_order_id ON order_items(order_id)  Error Code: 1061. Duplicate key name 'idx_order_items_ord
35  14:42:39  CREATE INDEX idx_order_items_order_id ON order_items(order_id)  Error Code: 1061. Duplicate key name 'idx_order_items_ord
36  14:42:41  CREATE INDEX idx_order_items_order_id ON order_items(order_id)  Error Code: 1061. Duplicate key name 'idx_order_items_ord
```

sql query select



```sql
SELECT * FROM products;
SELECT * FROM ORDERS;
SELECT * FROM order_items;
```

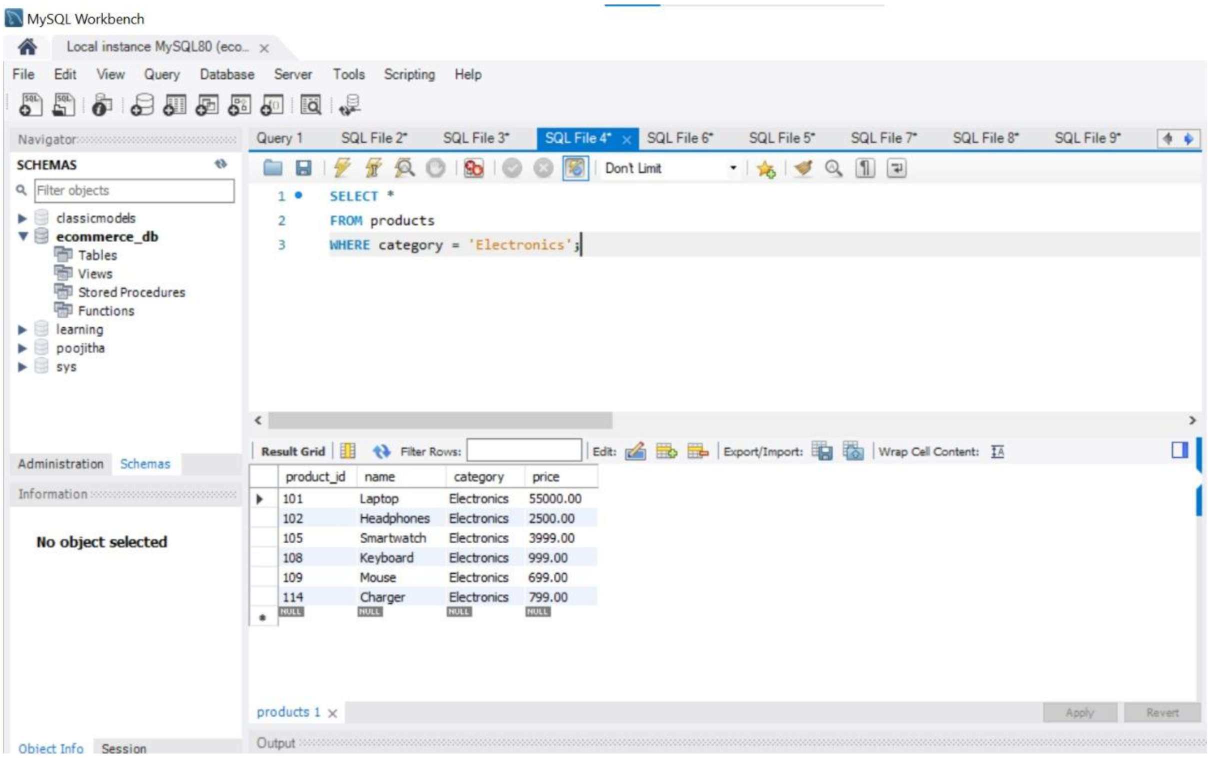
product_id	name	category	price
106	Bag	Accessories	899.00
107	Jeans	Clothing	1299.00
108	Keyboard	Electronics	999.00
109	Mouse	Electronics	699.00
110	Jacket	Clothing	2499.00
111	Bottle	Home	199.00
112	Phone Case	Accessories	299.00
113	Socks	Clothing	149.00
114	Charger	Electronics	799.00
115	Notebook	Stationery	99.00
NULL	NULL	NULL	NULL


MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
Query 1 SQL File 2* SQL File 3* SQL File 4* SQL File 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9*
Don't Limit
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
products 1
Apply Rever

```sql
SELECT product_id, name, category
FROM products;
```

product_id	name	category
101	Laptop	Electronics
102	Headphones	Electronics
103	T-shirt	Clothing
104	Shoes	Footwear
105	Smartwatch	Electronics
106	Bag	Accessories
107	Jeans	Clothing
108	Keyboard	Electronics
109	Mouse	Electronics
110	Jacket	Clothing
111	Bottle	Home

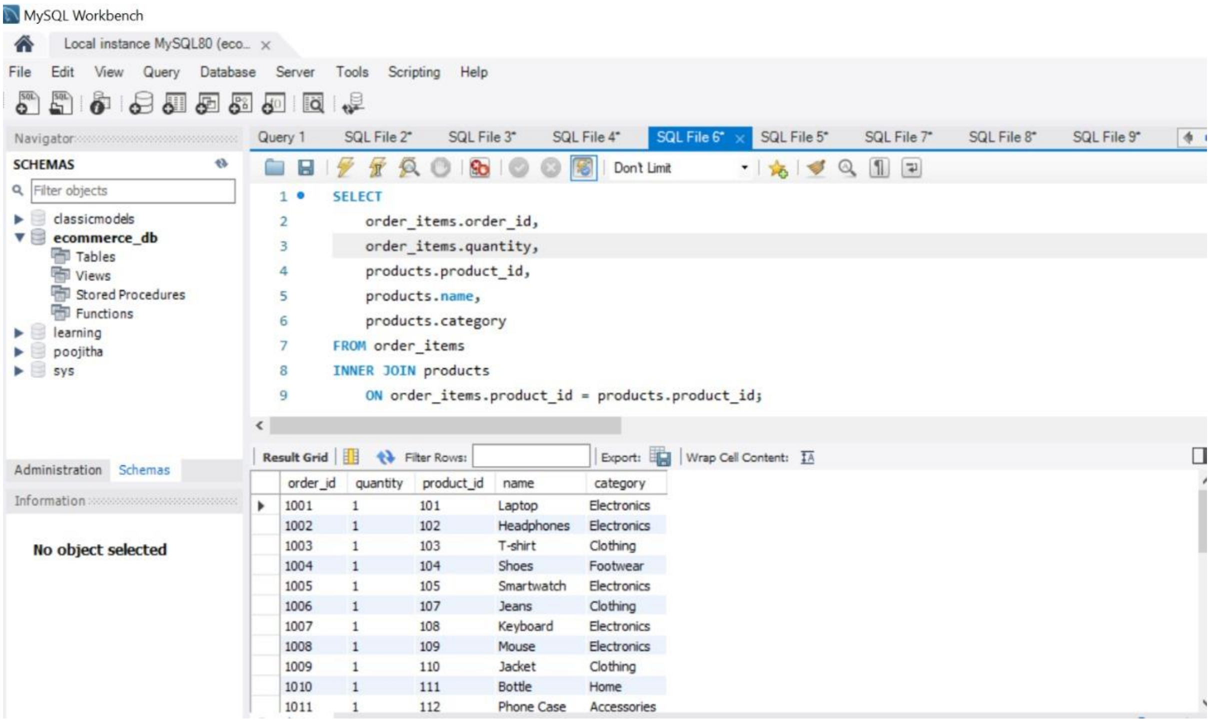
SQL QUERY WHERE


MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
Object Info Session
Query 1 SQL File 2* SQL File 3* SQL File 4* SQL File 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9*
Don't Limit
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
products 1
Apply Revert
Output

```sql
SELECT *
FROM products
WHERE category = 'Electronics';
```

product_id	name	category	price
101	Laptop	Electronics	55000.00
102	Headphones	Electronics	2500.00
105	Smartwatch	Electronics	3999.00
108	Keyboard	Electronics	999.00
109	Mouse	Electronics	699.00
114	Charger	Electronics	799.00
NULL	NULL	NULL	NULL

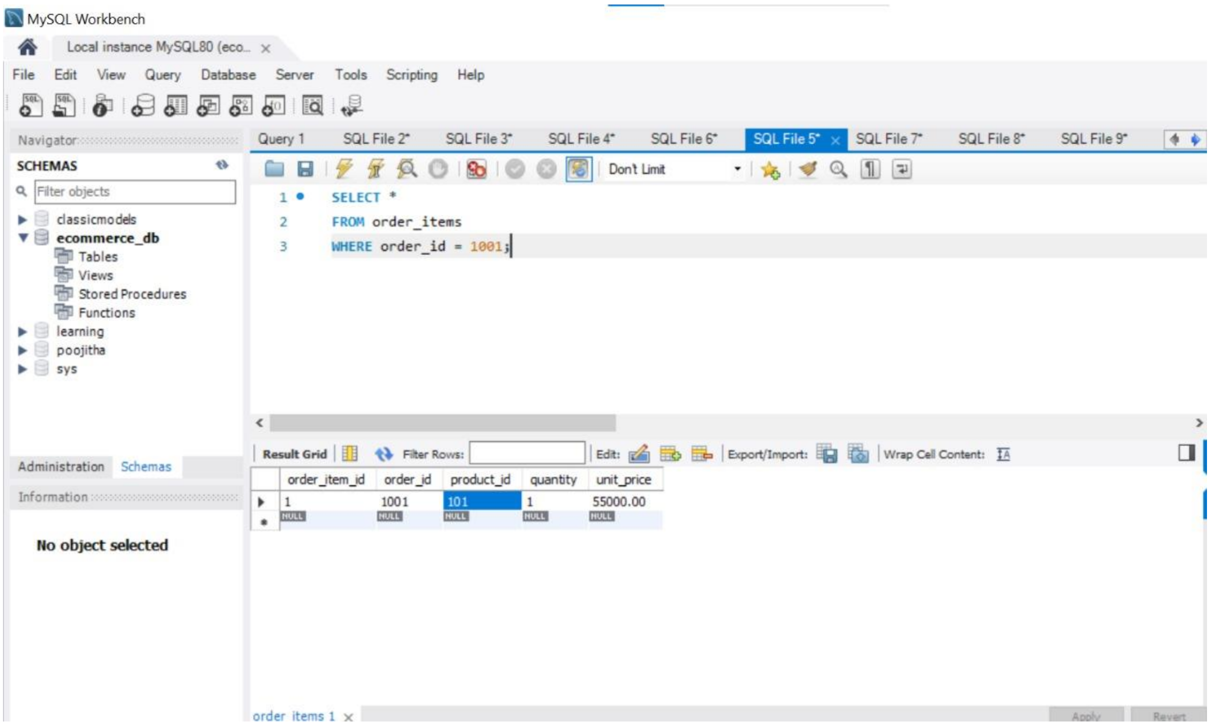
SQL QUERY INNER JOIN



```sql
SELECT
    order_items.order_id,
    order_items.quantity,
    products.product_id,
    products.name,
    products.category
FROM order_items
INNER JOIN products
    ON order_items.product_id = products.product_id;
```

order_id	quantity	product_id	name	category
1001	1	101	Laptop	Electronics
1002	1	102	Headphones	Electronics
1003	1	103	T-shirt	Clothing
1004	1	104	Shoes	Footwear
1005	1	105	Smartwatch	Electronics
1006	1	107	Jeans	Clothing
1007	1	108	Keyboard	Electronics
1008	1	109	Mouse	Electronics
1009	1	110	Jacket	Clothing
1010	1	111	Bottle	Home
1011	1	112	Phone Case	Accessories

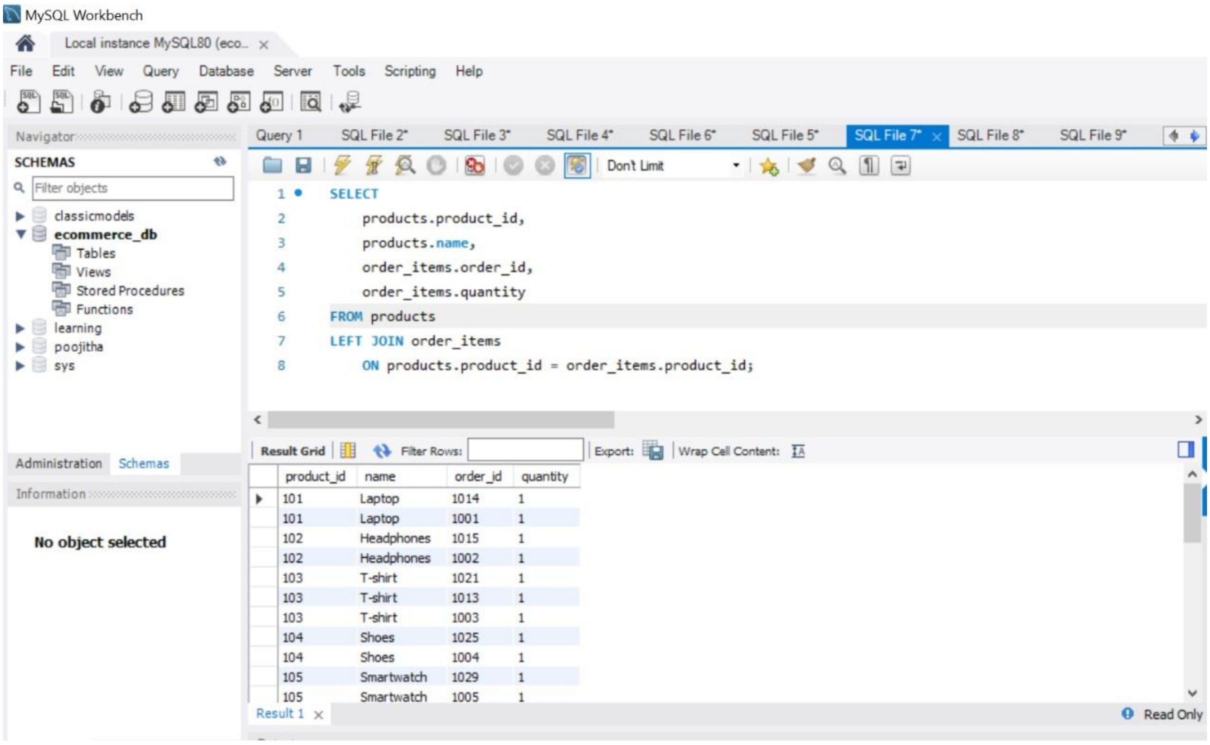
SQL QUERY LEFT JOIN



```sql
SELECT *
FROM order_items
WHERE order_id = 1001;
```

order_item_id	order_id	product_id	quantity	unit_price
1	1001	101	1	55000.00
NULL	NULL	NULL	NULL	NULL

SQL QUERY RIGHT JOIN

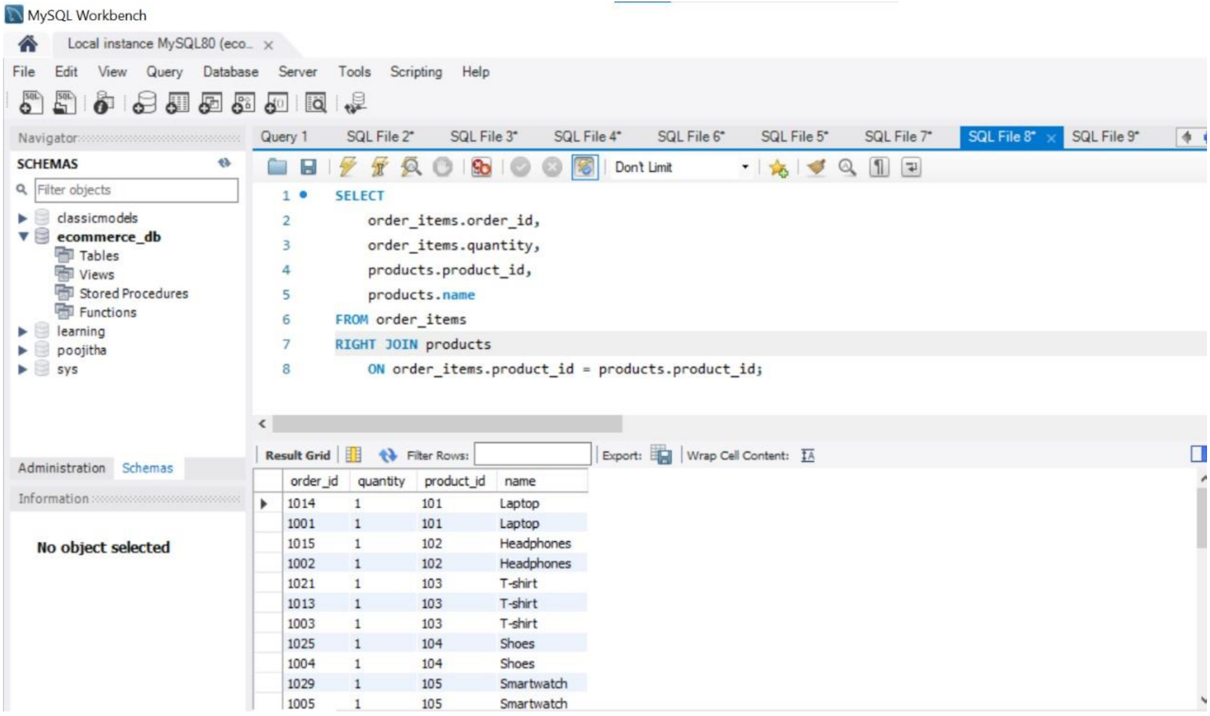


MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
Query 1 SQL File 2* SQL File 3* SQL File 4* SQL File 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9*
Don't Limit
Result Grid Filter Rows: Export: Wrap Cell Content:
Result 1
Read Only

```sql
SELECT
    products.product_id,
    products.name,
    order_items.order_id,
    order_items.quantity
FROM products
LEFT JOIN order_items
    ON products.product_id = order_items.product_id;
```

product_id	name	order_id	quantity
101	Laptop	1014	1
101	Laptop	1001	1
102	Headphones	1015	1
102	Headphones	1002	1
103	T-shirt	1021	1
103	T-shirt	1013	1
103	T-shirt	1003	1
104	Shoes	1025	1
104	Shoes	1004	1
105	Smartwatch	1029	1
105	Smartwatch	1005	1

SQL FOR SUBQUERY

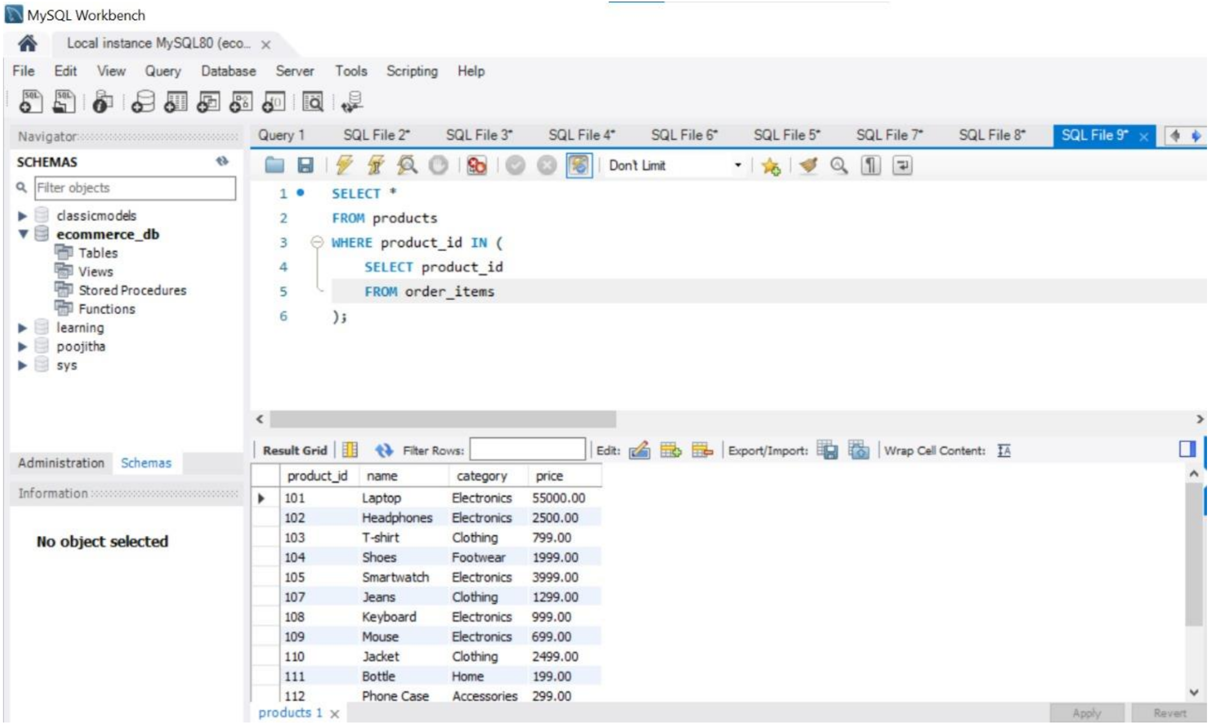


MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
Query 1 SQL File 2* SQL File 3* SQL File 4* SQL File 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9*
Don't Limit
Result Grid Filter Rows: Export: Wrap Cell Content:

```sql
SELECT
    order_items.order_id,
    order_items.quantity,
    products.product_id,
    products.name
FROM order_items
RIGHT JOIN products
    ON order_items.product_id = products.product_id;
```

order_id	quantity	product_id	name
1014	1	101	Laptop
1001	1	101	Laptop
1015	1	102	Headphones
1002	1	102	Headphones
1021	1	103	T-shirt
1013	1	103	T-shirt
1003	1	103	T-shirt
1025	1	104	Shoes
1004	1	104	Shoes
1029	1	105	Smartwatch
1005	1	105	Smartwatch

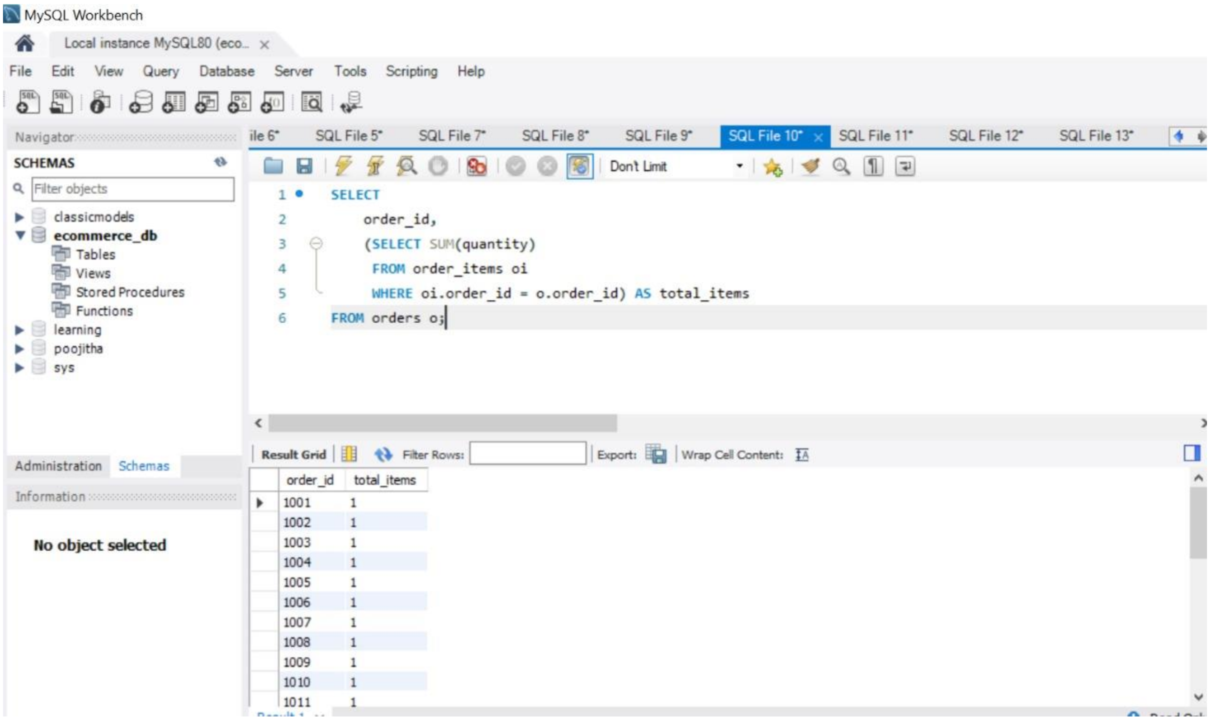
SQL QUERY FOR SUM


MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
Query 1 SQL File 2* SQL File 3* SQL File 4* SQL File 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9*
Don't Limit
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
products 1
Apply Revert

```
SELECT *
FROM products
WHERE product_id IN (
    SELECT product_id
    FROM order_items
);
```

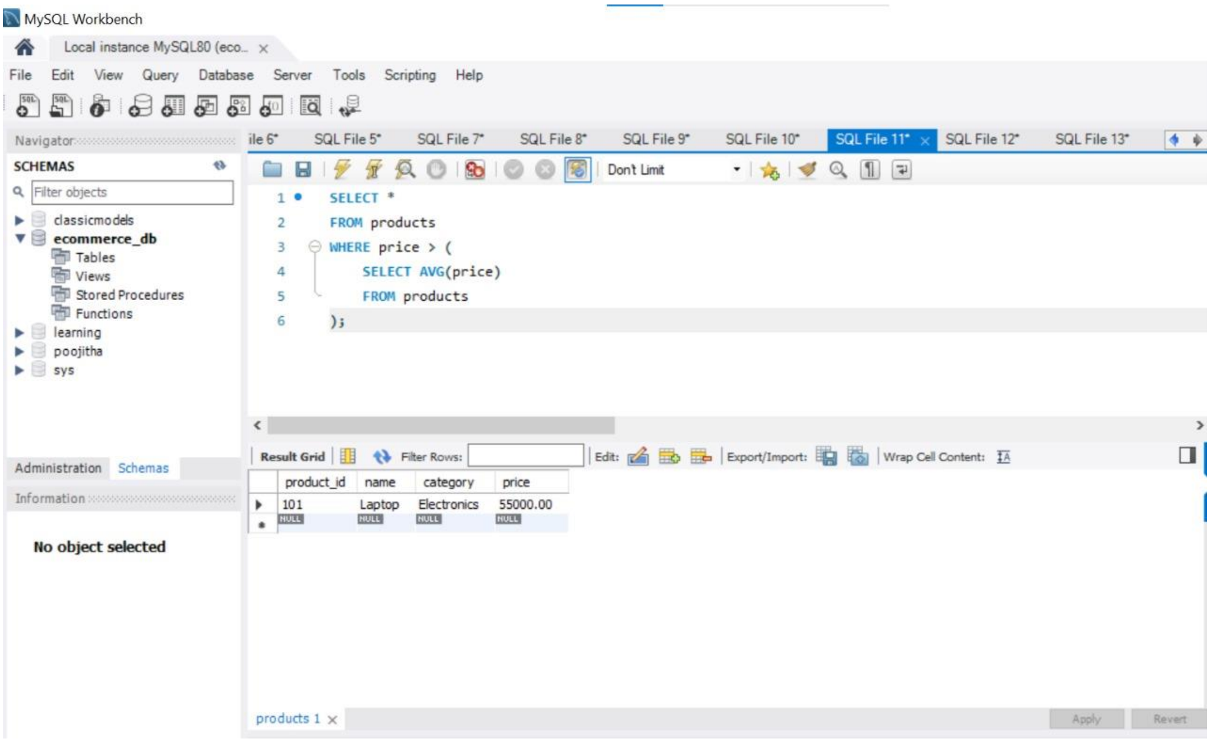
product_id	name	category	price
101	Laptop	Electronics	55000.00
102	Headphones	Electronics	2500.00
103	T-shirt	Clothing	799.00
104	Shoes	Footwear	1999.00
105	Smartwatch	Electronics	3999.00
107	Jeans	Clothing	1299.00
108	Keyboard	Electronics	999.00
109	Mouse	Electronics	699.00
110	Jacket	Clothing	2499.00
111	Bottle	Home	199.00
112	Phone Case	Accessories	299.00

SQL QUERY FOR AVG


MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
ile 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13*
Don't Limit
Result Grid Filter Rows: Export: Wrap Cell Content:

```
SELECT
    order_id,
    (SELECT SUM(quantity)
     FROM order_items oi
     WHERE oi.order_id = o.order_id) AS total_items
FROM orders o;
```

order_id	total_items
1001	1
1002	1
1003	1
1004	1
1005	1
1006	1
1007	1
1008	1
1009	1
1010	1
1011	1



MySQL Workbench
Local instance MySQL80 (eco...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
classicmodels
ecommerce_db
Tables
Views
Stored Procedures
Functions
learning
poojitha
sys
Administration Schemas
Information
No object selected
ile 6* SQL File 5* SQL File 7* SQL File 8* SQL File 9* SQL File 10* SQL File 11* SQL File 12* SQL File 13*
Don't Limit
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:
products 1
Apply Revert

```
SELECT *
FROM products
WHERE price > (
    SELECT AVG(price)
    FROM products
);
```

product_id	name	category	price
101	Laptop	Electronics	55000.00
NULL	NULL	NULL	NULL