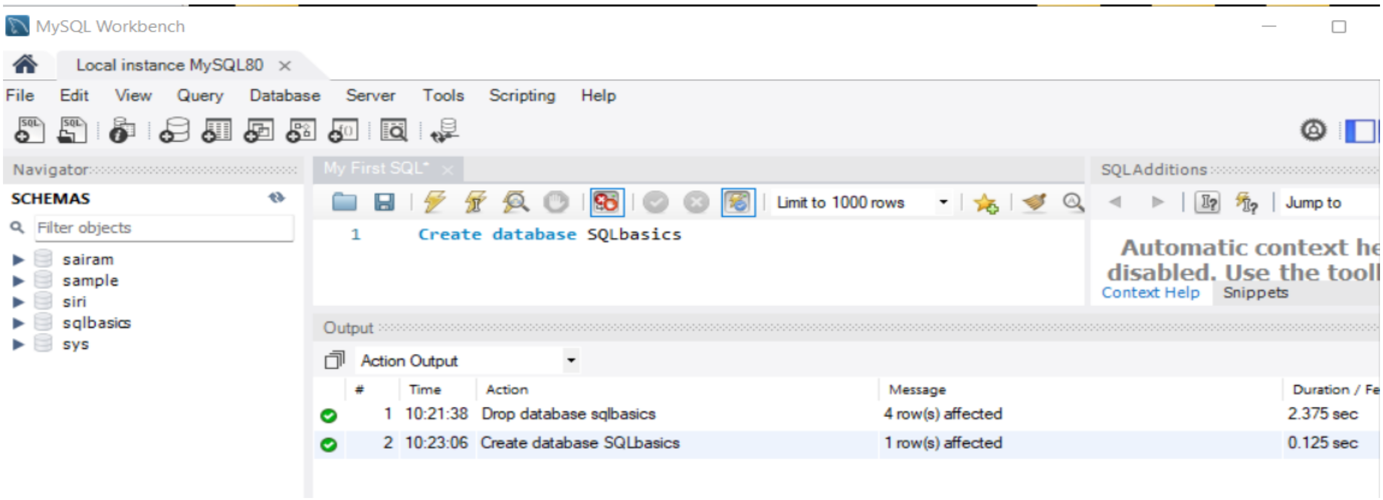
COURSE 4: SQLTRAINING

PRACTICE PROJECT

5.18 Retail Mart Management

Task

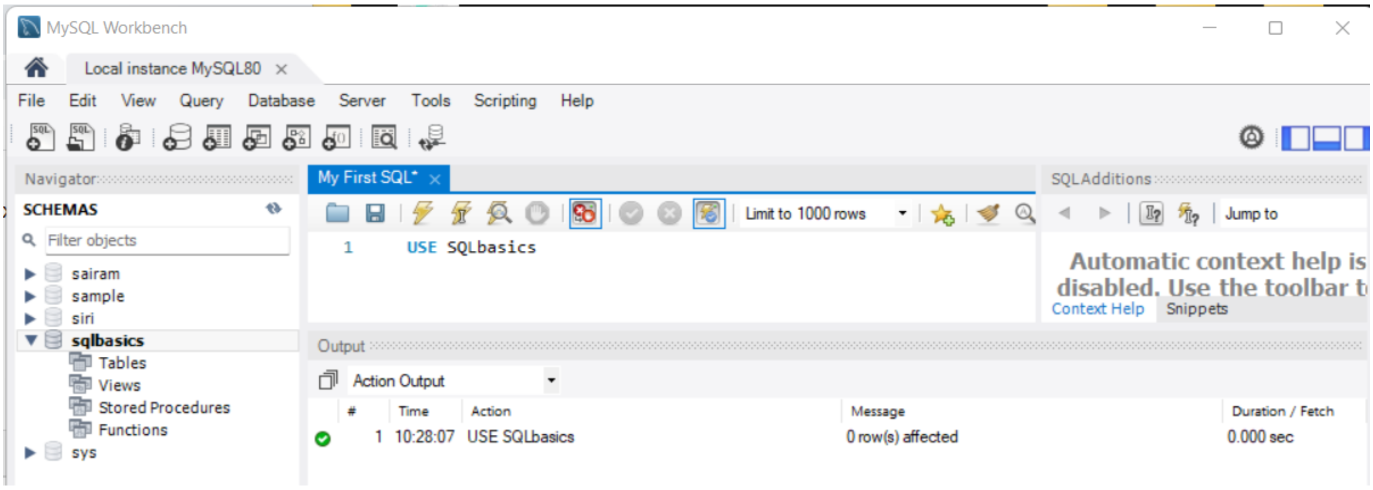
1. Write a Query to create a database named SQL basics



```
Create database SQLbasics
```

```
#   Time      Action                      Message               Duration / Fe
1   10:21:38  Drop database sqlbasics     4 row(s) affected     2.375 sec
2   10:23:06  Create database SQLbasics   1 row(s) affected     0.125 sec
```

2. Write a query to select the database SQL basics

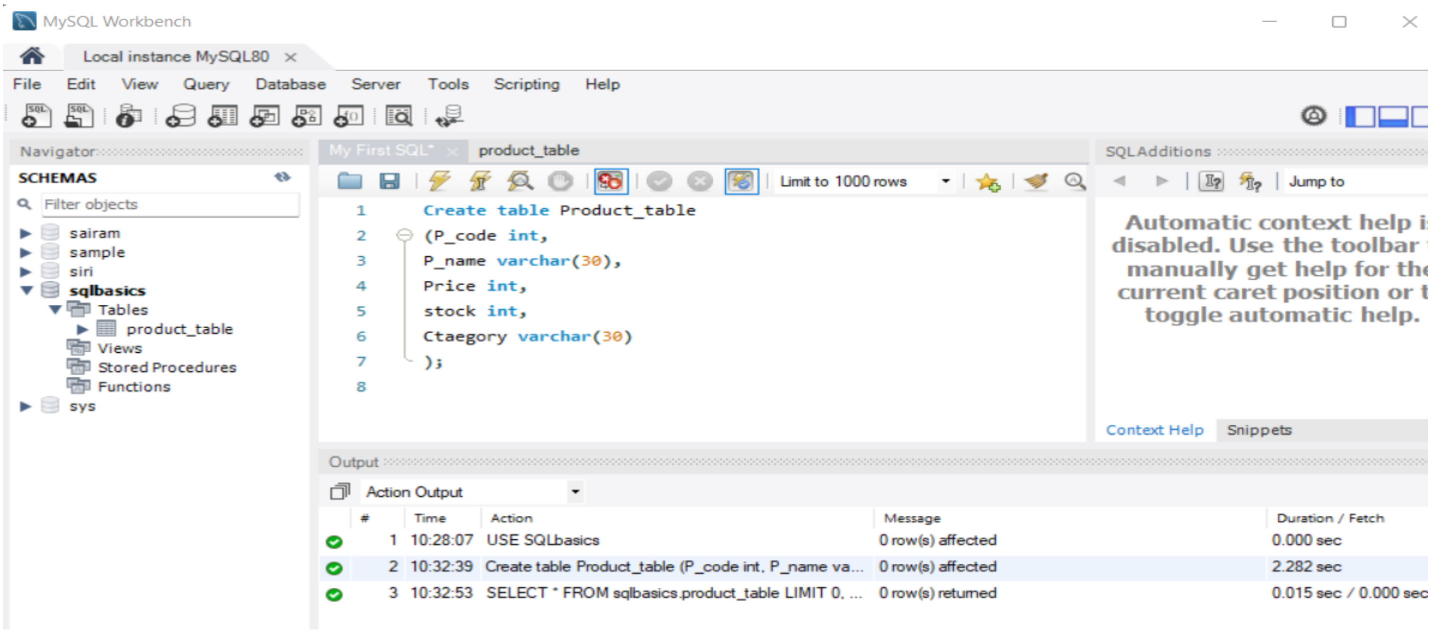


```
USE SQLbasics
```

```
#   Time      Action          Message               Duration / Fetch
1   10:28:07  USE SQLbasics   0 row(s) affected     0.000 sec
```

3. Write a query to create a **product table** with fields as product code, product name, price, stock and category, **customer table** with the fields as customer id, customer name, customer location, and customer phone number and, **sales table** with the fields as date, order number, product code, product name, quantity, and price.

Product_Table



```sql
Create table Product_table
(P_code int,
P_name varchar(30),
Price int,
stock int,
Ctaegory varchar(30)
);
```

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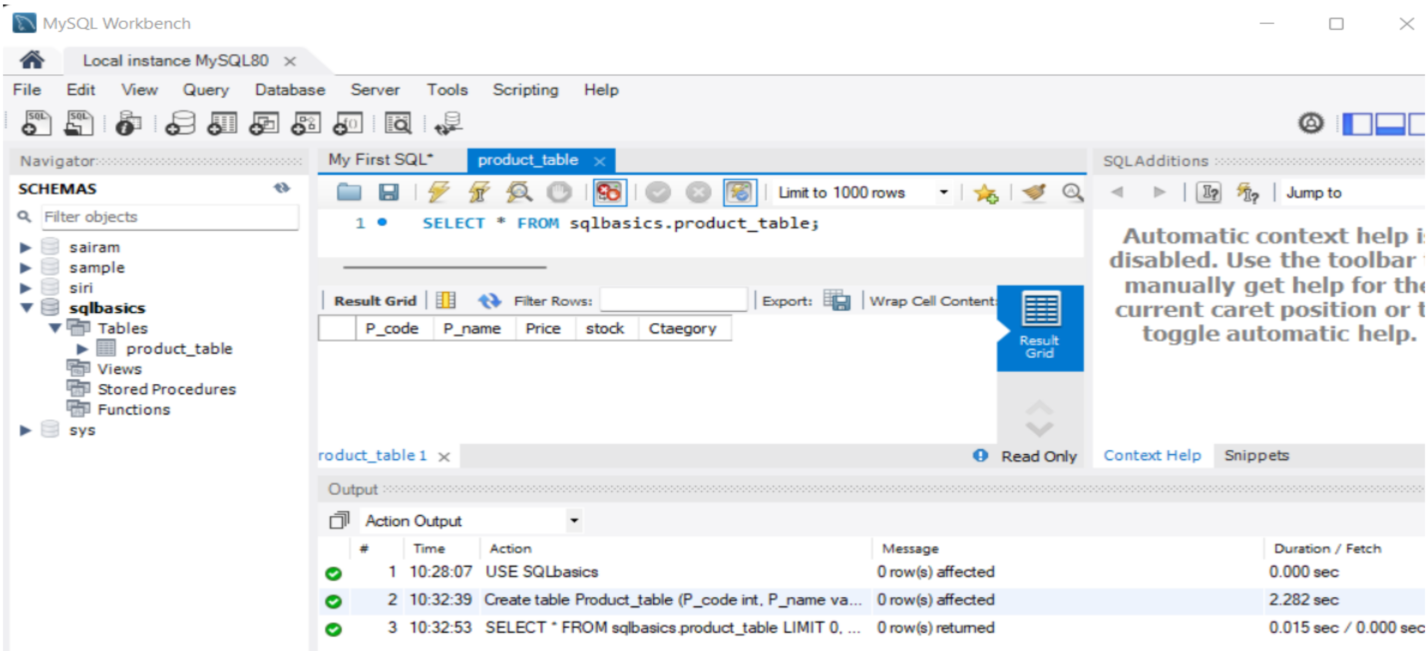
```
#   Time      Action                                             Message              Duration / Fetch
1   10:28:07  USE SQLbasics                                      0 row(s) affected    0.000 sec
2   10:32:39  Create table Product_table (P_code int, P_name va...  0 row(s) affected    2.282 sec
3   10:32:53  SELECT * FROM sqlbasics.product_table LIMIT 0, ...    0 row(s) returned    0.015 sec / 0.000 sec
```



```sql
SELECT * FROM sqlbasics.product_table;
```

P_code	P_name	Price	stock	Ctaegory

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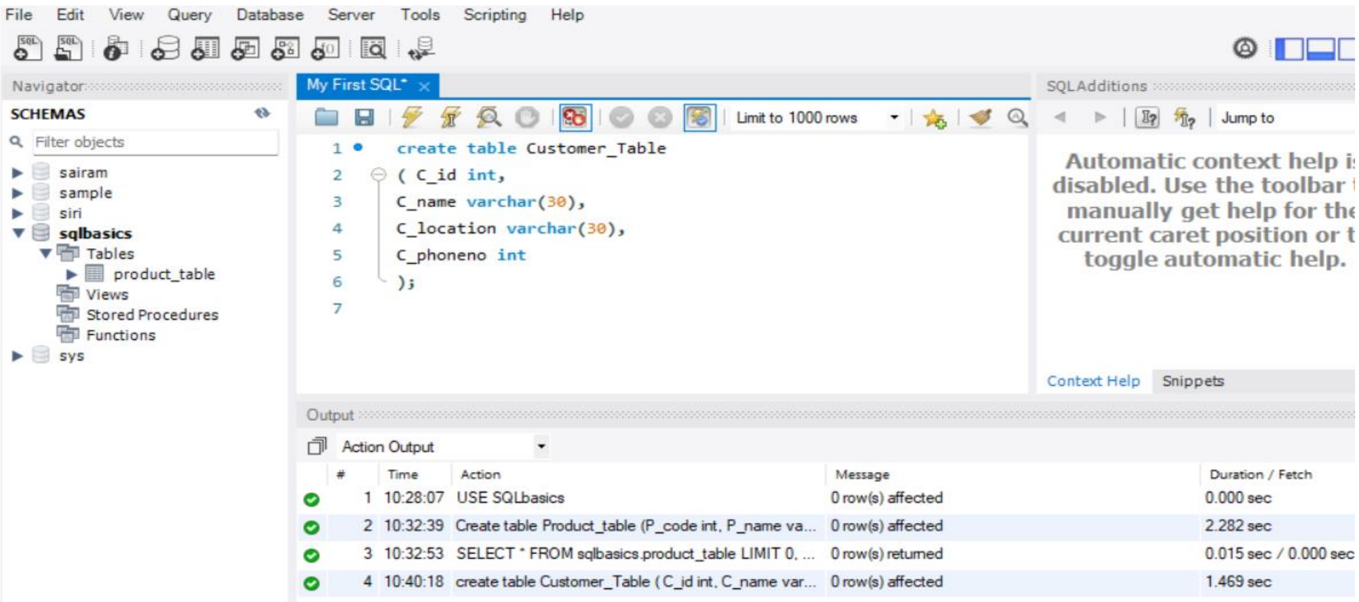
```
#   Time      Action                                             Message              Duration / Fetch
1   10:28:07  USE SQLbasics                                      0 row(s) affected    0.000 sec
2   10:32:39  Create table Product_table (P_code int, P_name va...  0 row(s) affected    2.282 sec
3   10:32:53  SELECT * FROM sqlbasics.product_table LIMIT 0, ...    0 row(s) returned    0.015 sec / 0.000 sec
```

Customer_Table



```sql
create table Customer_Table
( C_id int,
C_name varchar(30),
C_location varchar(30),
C_phoneno int
);
```

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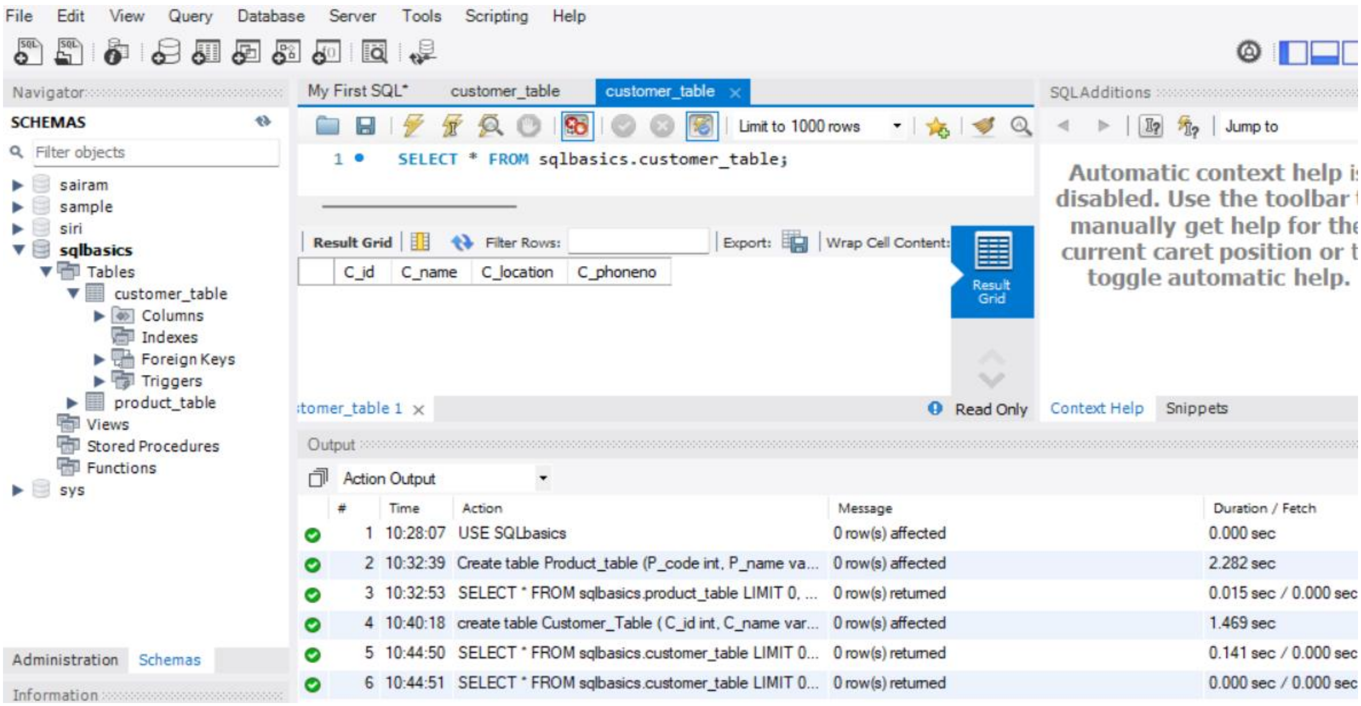
```
#   Time      Action                                             Message              Duration / Fetch
1   10:28:07  USE SQLbasics                                      0 row(s) affected    0.000 sec
2   10:32:39  Create table Product_table (P_code int, P_name va...  0 row(s) affected    2.282 sec
3   10:32:53  SELECT * FROM sqlbasics.product_table LIMIT 0, ...    0 row(s) returned    0.015 sec / 0.000 sec
4   10:40:18  create table Customer_Table ( C_id int, C_name var...  0 row(s) affected    1.469 sec
```

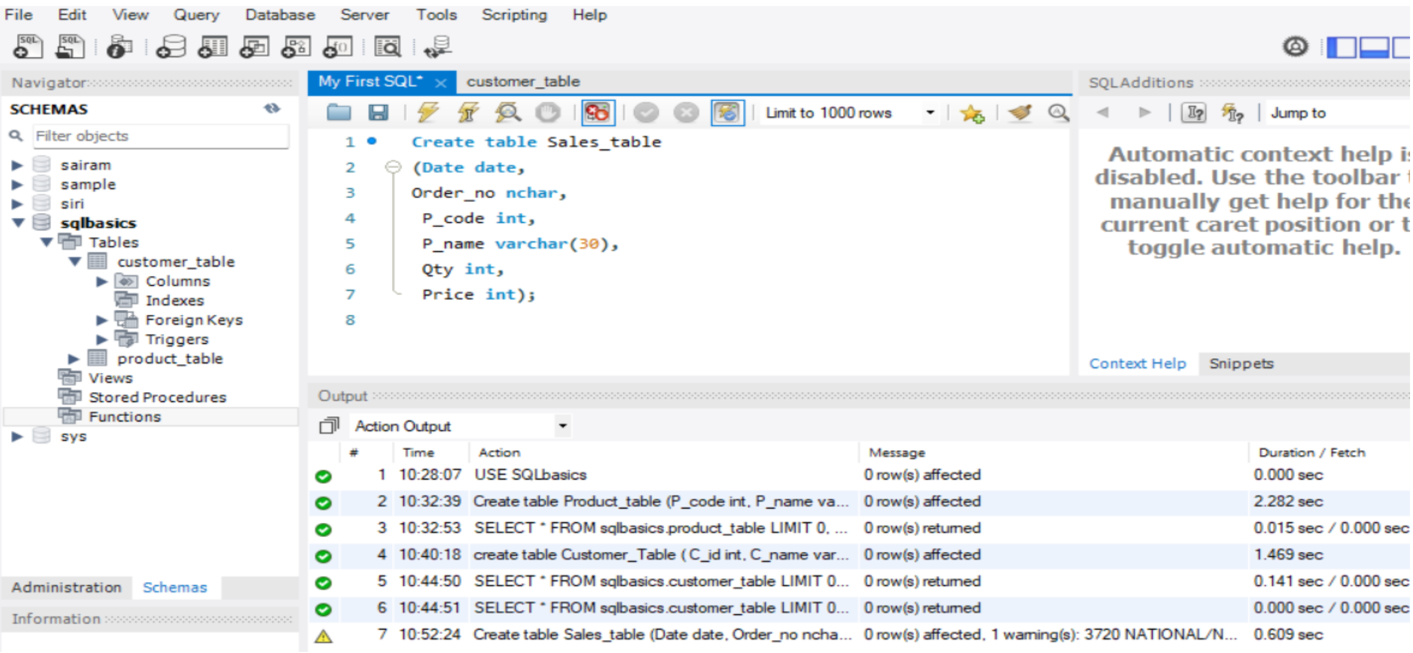


```
SELECT * FROM sqlbasics.customer_table;
```

C_id	C_name	C_location	C_phoneno

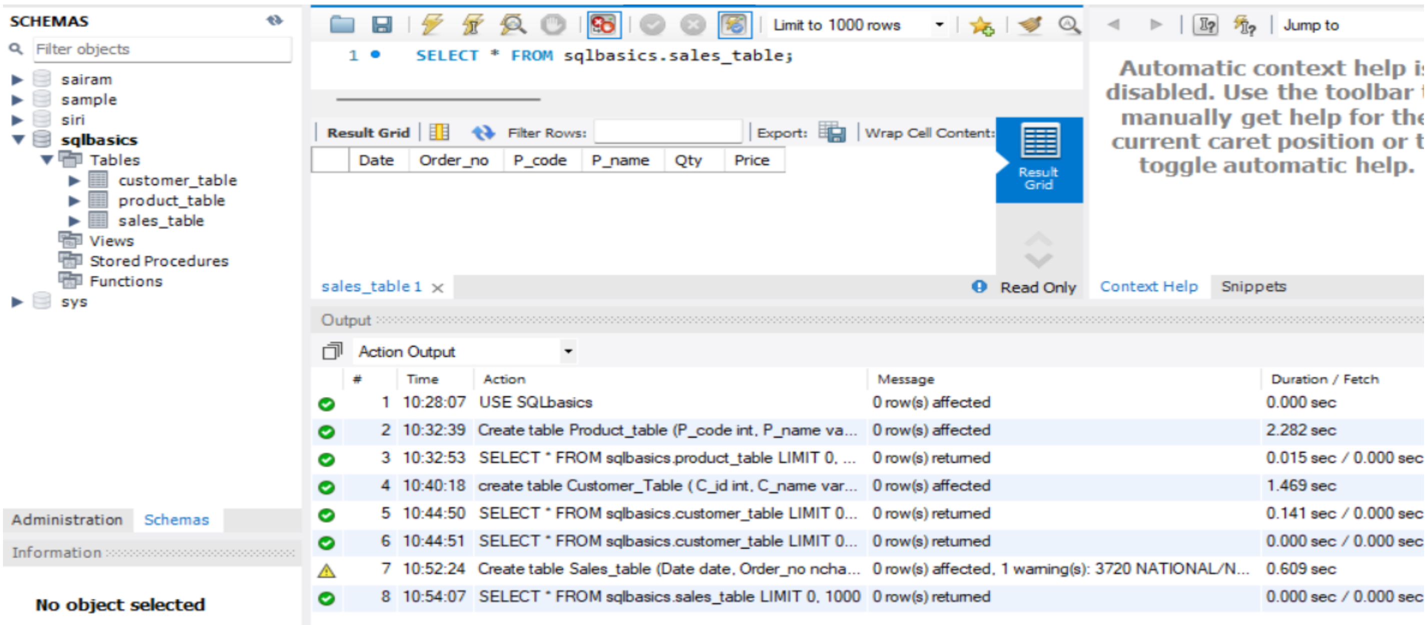
```
#  Time      Action                                            Message            Duration / Fetch
1  10:28:07  USE SQLbasics                                     0 row(s) affected  0.000 sec
2  10:32:39  Create table Product_table (P_code int, P_name va...  0 row(s) affected  2.282 sec
3  10:32:53  SELECT * FROM sqlbasics.product_table LIMIT 0, ...  0 row(s) returned  0.015 sec / 0.000 sec
4  10:40:18  create table Customer_Table ( C_id int, C_name var...  0 row(s) affected  1.469 sec
5  10:44:50  SELECT * FROM sqlbasics.customer_table LIMIT 0...  0 row(s) returned  0.141 sec / 0.000 sec
6  10:44:51  SELECT * FROM sqlbasics.customer_table LIMIT 0...  0 row(s) returned  0.000 sec / 0.000 sec
```

Sales_Table



```
Create table Sales_table
(Date date,
Order_no nchar,
 P_code int,
 P_name varchar(30),
 Qty int,
 Price int);
```

```
#  Time      Action                                            Message            Duration / Fetch
1  10:28:07  USE SQLbasics                                     0 row(s) affected  0.000 sec
2  10:32:39  Create table Product_table (P_code int, P_name va...  0 row(s) affected  2.282 sec
3  10:32:53  SELECT * FROM sqlbasics.product_table LIMIT 0, ...  0 row(s) returned  0.015 sec / 0.000 sec
4  10:40:18  create table Customer_Table ( C_id int, C_name var...  0 row(s) affected  1.469 sec
5  10:44:50  SELECT * FROM sqlbasics.customer_table LIMIT 0...  0 row(s) returned  0.141 sec / 0.000 sec
6  10:44:51  SELECT * FROM sqlbasics.customer_table LIMIT 0...  0 row(s) returned  0.000 sec / 0.000 sec
7  10:52:24  Create table Sales_table (Date date, Order_no ncha...  0 row(s) affected, 1 warning(s): 3720 NATIONAL/N...  0.609 sec
```

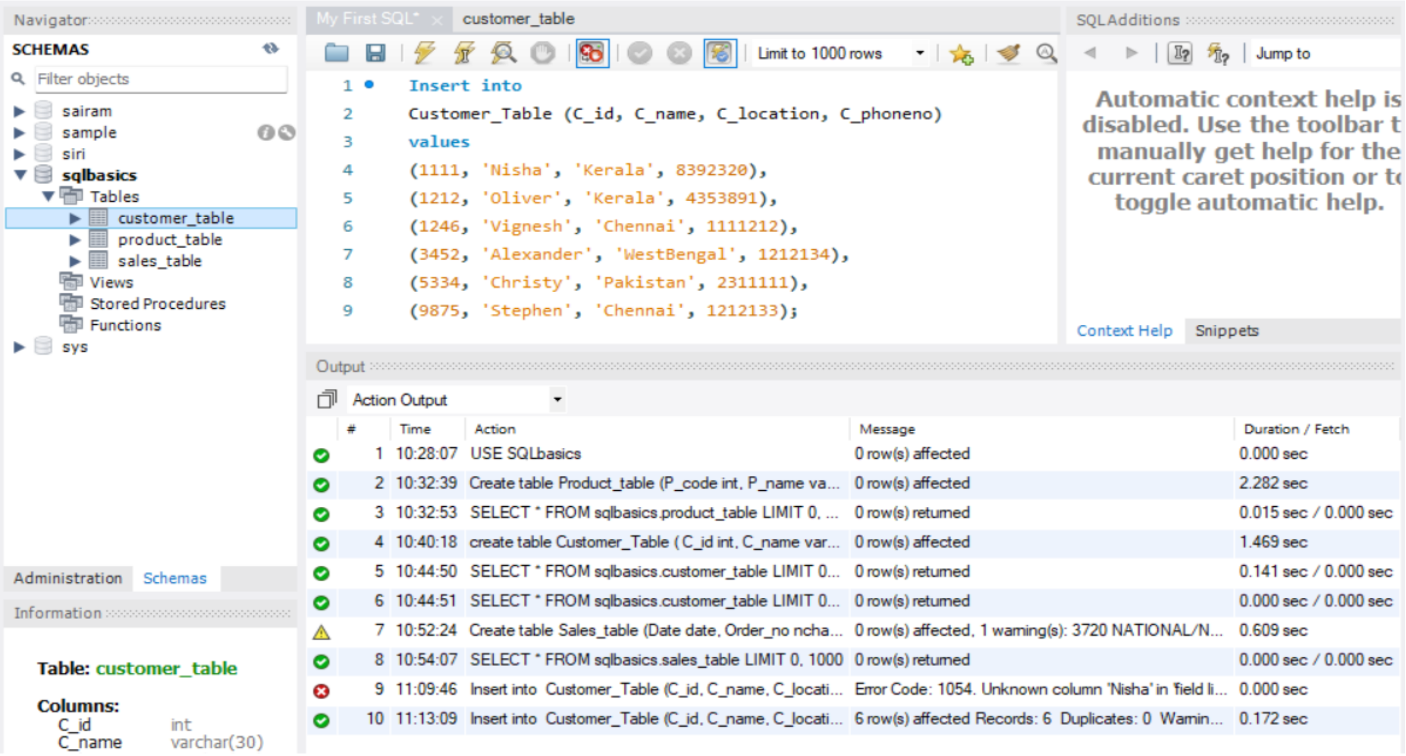


```
SELECT * FROM sqlbasics.sales_table;
```

Date	Order_no	P_code	P_name	Qty	Price

```
#  Time      Action                                            Message            Duration / Fetch
1  10:28:07  USE SQLbasics                                     0 row(s) affected  0.000 sec
2  10:32:39  Create table Product_table (P_code int, P_name va...  0 row(s) affected  2.282 sec
3  10:32:53  SELECT * FROM sqlbasics.product_table LIMIT 0, ...  0 row(s) returned  0.015 sec / 0.000 sec
4  10:40:18  create table Customer_Table ( C_id int, C_name var...  0 row(s) affected  1.469 sec
5  10:44:50  SELECT * FROM sqlbasics.customer_table LIMIT 0...  0 row(s) returned  0.141 sec / 0.000 sec
6  10:44:51  SELECT * FROM sqlbasics.customer_table LIMIT 0...  0 row(s) returned  0.000 sec / 0.000 sec
7  10:52:24  Create table Sales_table (Date date, Order_no ncha...  0 row(s) affected, 1 warning(s): 3720 NATIONAL/N...  0.609 sec
8  10:54:07  SELECT * FROM sqlbasics.sales_table LIMIT 0, 1000  0 row(s) returned  0.000 sec / 0.000 sec
```

4. Write a query to **insert values** into the tables.



```
Insert into
Customer_Table (C_id, C_name, C_location, C_phoneno)
values
(1111, 'Nisha', 'Kerala', 8392320),
(1212, 'Oliver', 'Kerala', 4353891),
(1246, 'Vignesh', 'Chennai', 1111212),
(3452, 'Alexander', 'WestBengal', 1212134),
(5334, 'Christy', 'Pakistan', 2311111),
(9875, 'Stephen', 'Chennai', 1212133);
```

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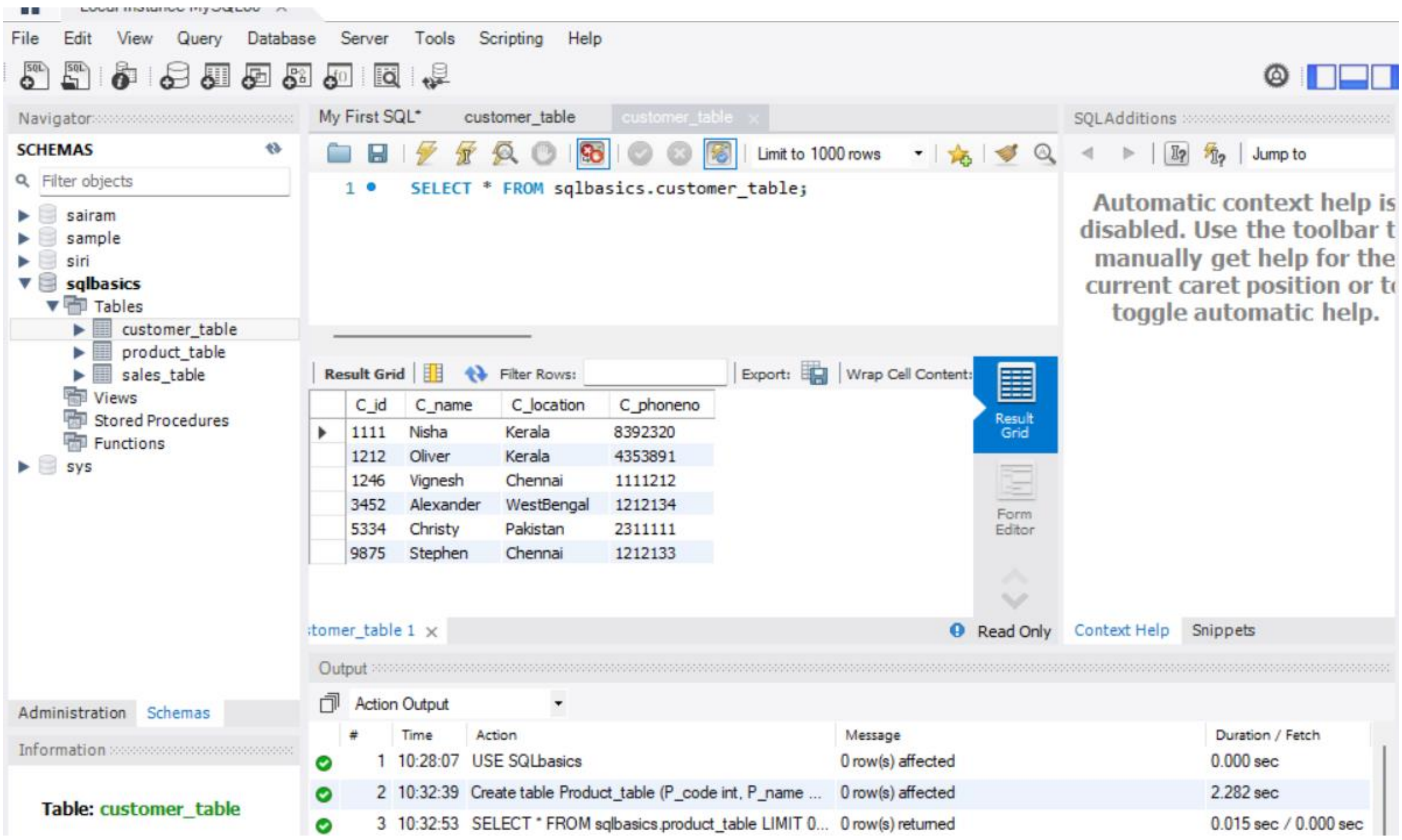
Table: customer_table

Columns:

C_id	int
C_name	varchar(30)

	#	Time	Action	Message	Duration / Fetch
✓	1	10:28:07	USE SQLbasics	0 row(s) affected	0.000 sec
✓	2	10:32:39	Create table Product_table (P_code int, P_name va...	0 row(s) affected	2.282 sec
✓	3	10:32:53	SELECT * FROM sqlbasics.product_table LIMIT 0, ...	0 row(s) returned	0.015 sec / 0.000 sec
✓	4	10:40:18	create table Customer_Table (C_id int, C_name var...	0 row(s) affected	1.469 sec
✓	5	10:44:50	SELECT * FROM sqlbasics.customer_table LIMIT 0...	0 row(s) returned	0.141 sec / 0.000 sec
✓	6	10:44:51	SELECT * FROM sqlbasics.customer_table LIMIT 0...	0 row(s) returned	0.000 sec / 0.000 sec
⚠	7	10:52:24	Create table Sales_table (Date date, Order_no ncha...	0 row(s) affected, 1 warning(s): 3720 NATIONAL/N...	0.609 sec
✓	8	10:54:07	SELECT * FROM sqlbasics.sales_table LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✗	9	11:09:46	Insert into Customer_Table (C_id, C_name, C_locati...	Error Code: 1054. Unknown column 'Nisha' in 'field li...	0.000 sec
✓	10	11:13:09	Insert into Customer_Table (C_id, C_name, C_locati...	6 row(s) affected Records: 6 Duplicates: 0 Warnin...	0.172 sec



```
SELECT * FROM sqlbasics.customer_table;
```

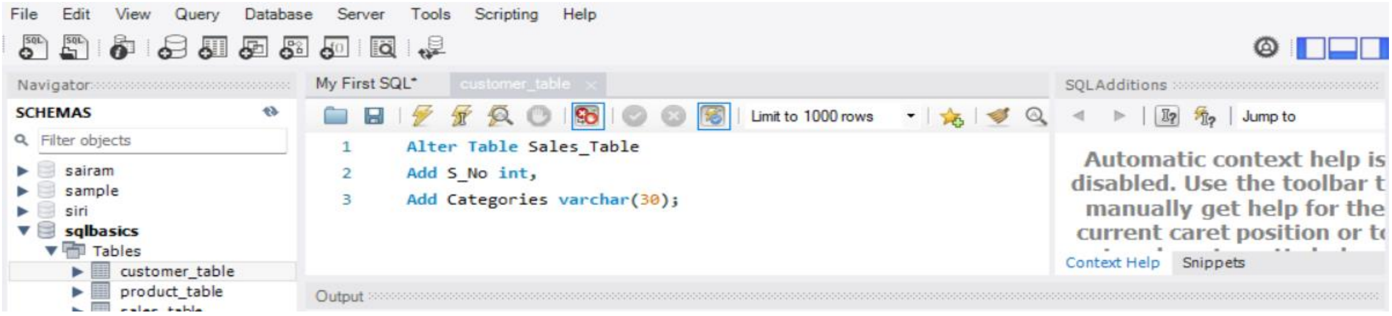
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

C_id	C_name	C_location	C_phoneno
1111	Nisha	Kerala	8392320
1212	Oliver	Kerala	4353891
1246	Vignesh	Chennai	1111212
3452	Alexander	WestBengal	1212134
5334	Christy	Pakistan	2311111
9875	Stephen	Chennai	1212133

Table: customer_table

	#	Time	Action	Message	Duration / Fetch
✓	1	10:28:07	USE SQLbasics	0 row(s) affected	0.000 sec
✓	2	10:32:39	Create table Product_table (P_code int, P_name ...	0 row(s) affected	2.282 sec
✓	3	10:32:53	SELECT * FROM sqlbasics.product_table LIMIT 0...	0 row(s) returned	0.015 sec / 0.000 sec

5. Write a query to add two new columns such as **S_no** and **categories** to the sales table.



```
Alter Table Sales_Table
Add S_No int,
Add Categories varchar(30);
```

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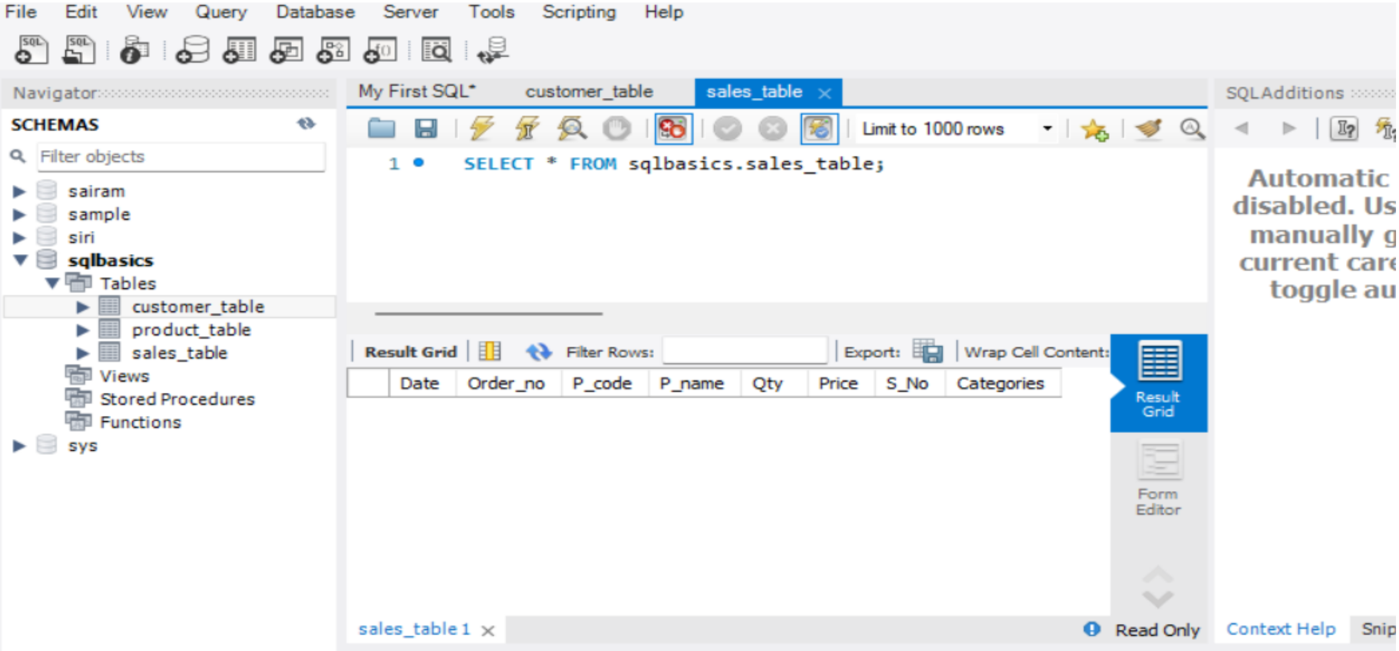

```
SELECT * FROM sqlbasics.sales_table;
```

Date	Order_no	P_code	P_name	Qty	Price	S_No	Categories

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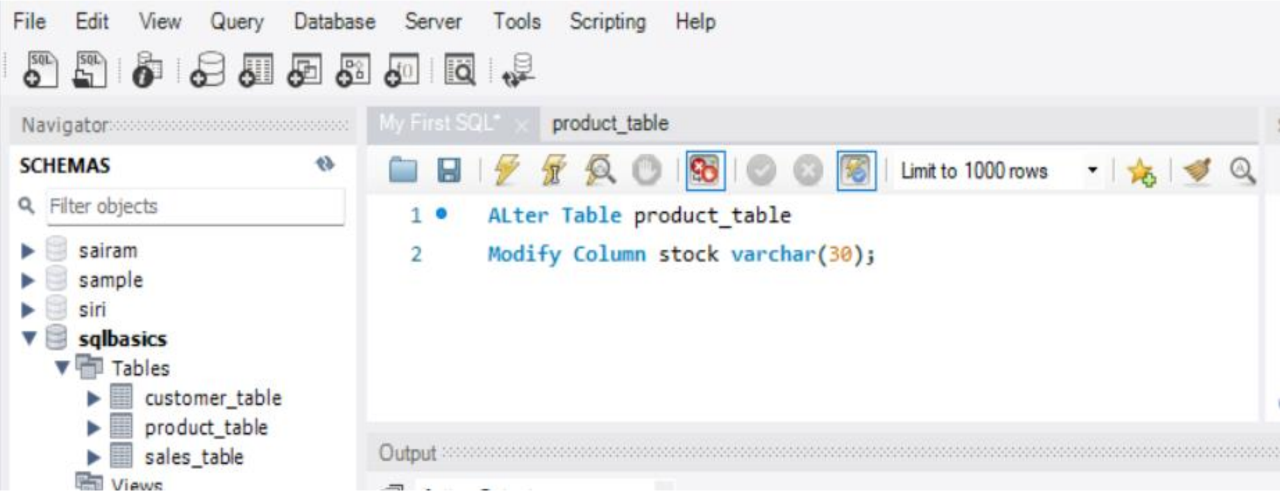
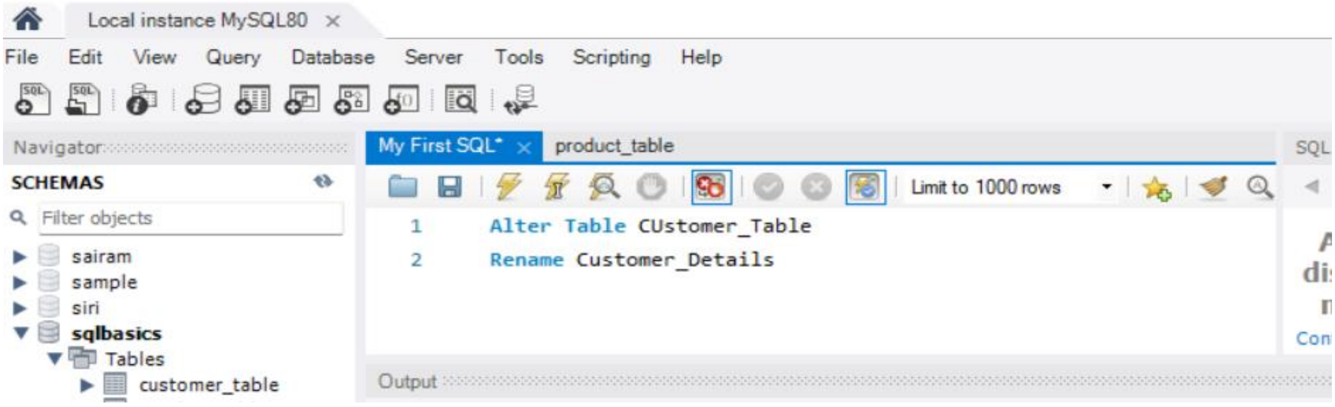
6. Write a query to change the column type of **stock** in the product table to **varchar.**



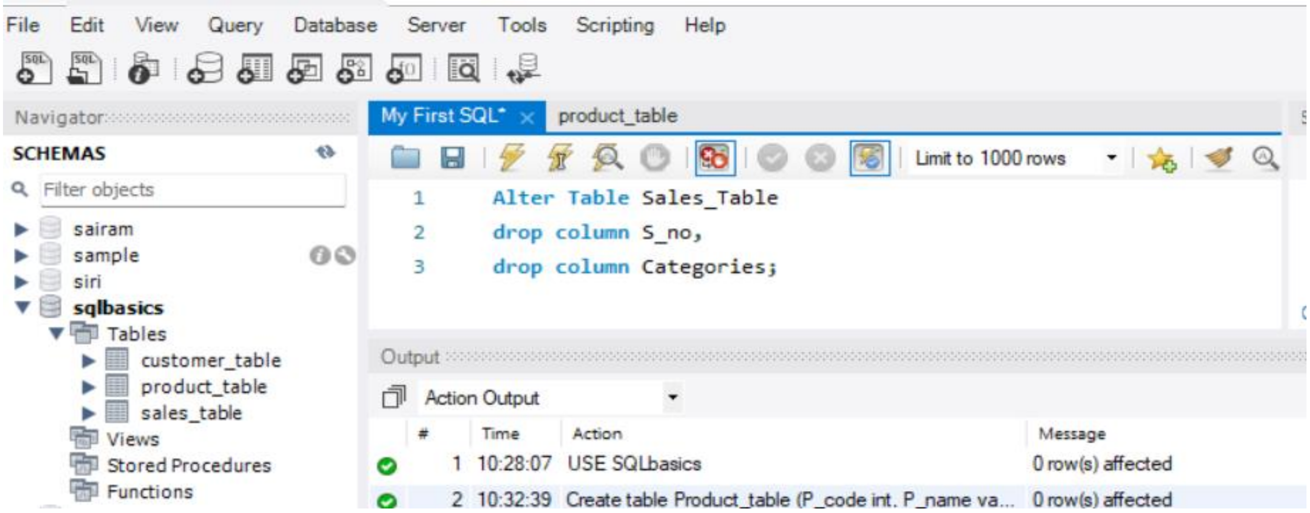
```
ALter Table product_table
Modify Column stock varchar(30);
```

7. Write a query to **change** the table name from **customer**-to-**customer** details.



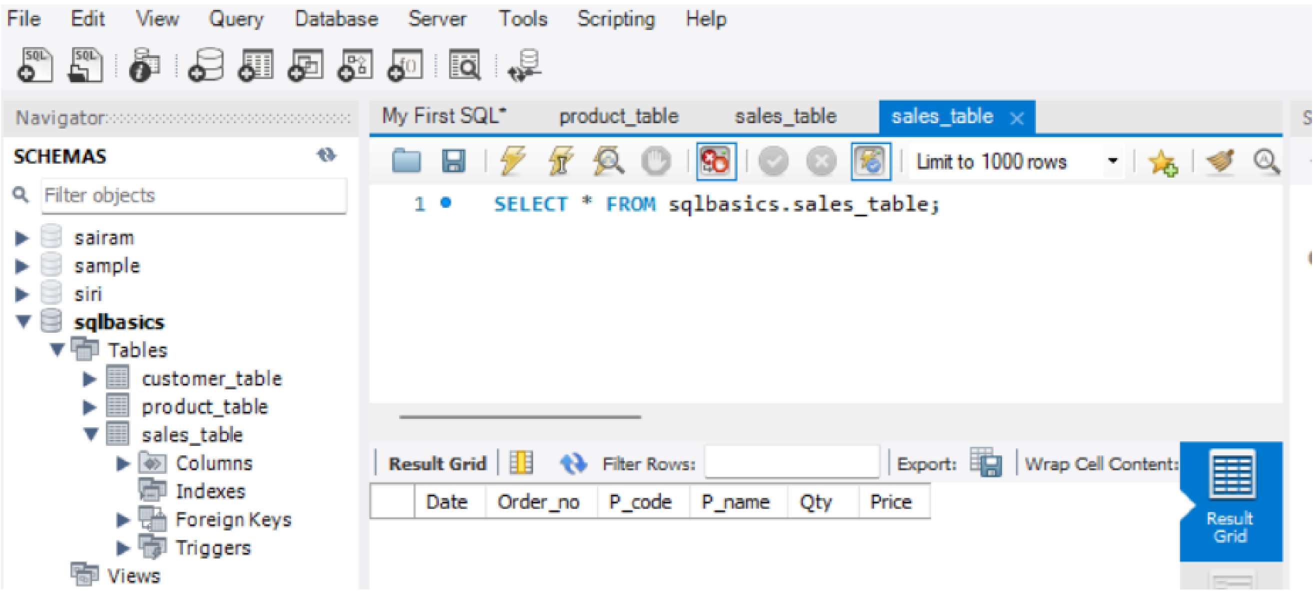
```
Alter Table CUstomer_Table
Rename Customer_Details
```

8. Write a query to **drop** the columns **S_no** and **categories** from the sales table.



```
Alter Table Sales_Table
drop column S_no,
drop column Categories;
```

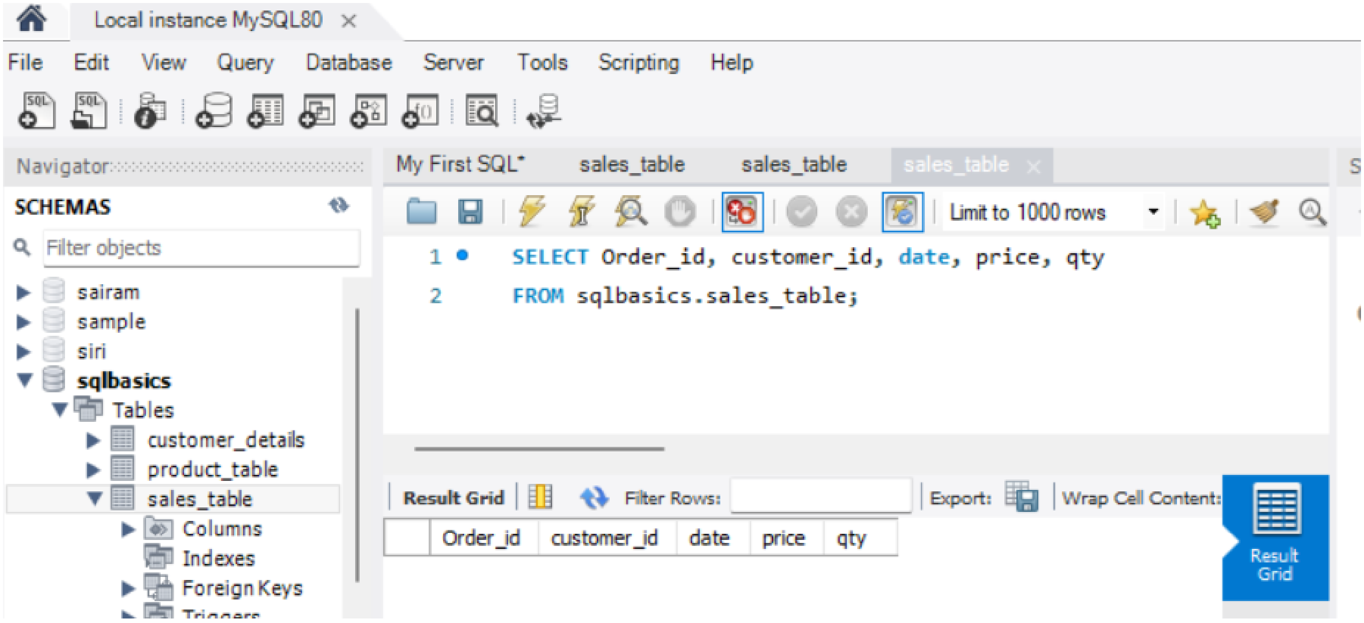
	#	Time	Action	Message
✓	1	10:28:07	USE SQLbasics	0 row(s) affected
✓	2	10:32:39	Create table Product_table (P_code int, P_name va...	0 row(s) affected



```
SELECT * FROM sqlbasics.sales_table;
```

	Date	Order_no	P_code	P_name	Qty	Price

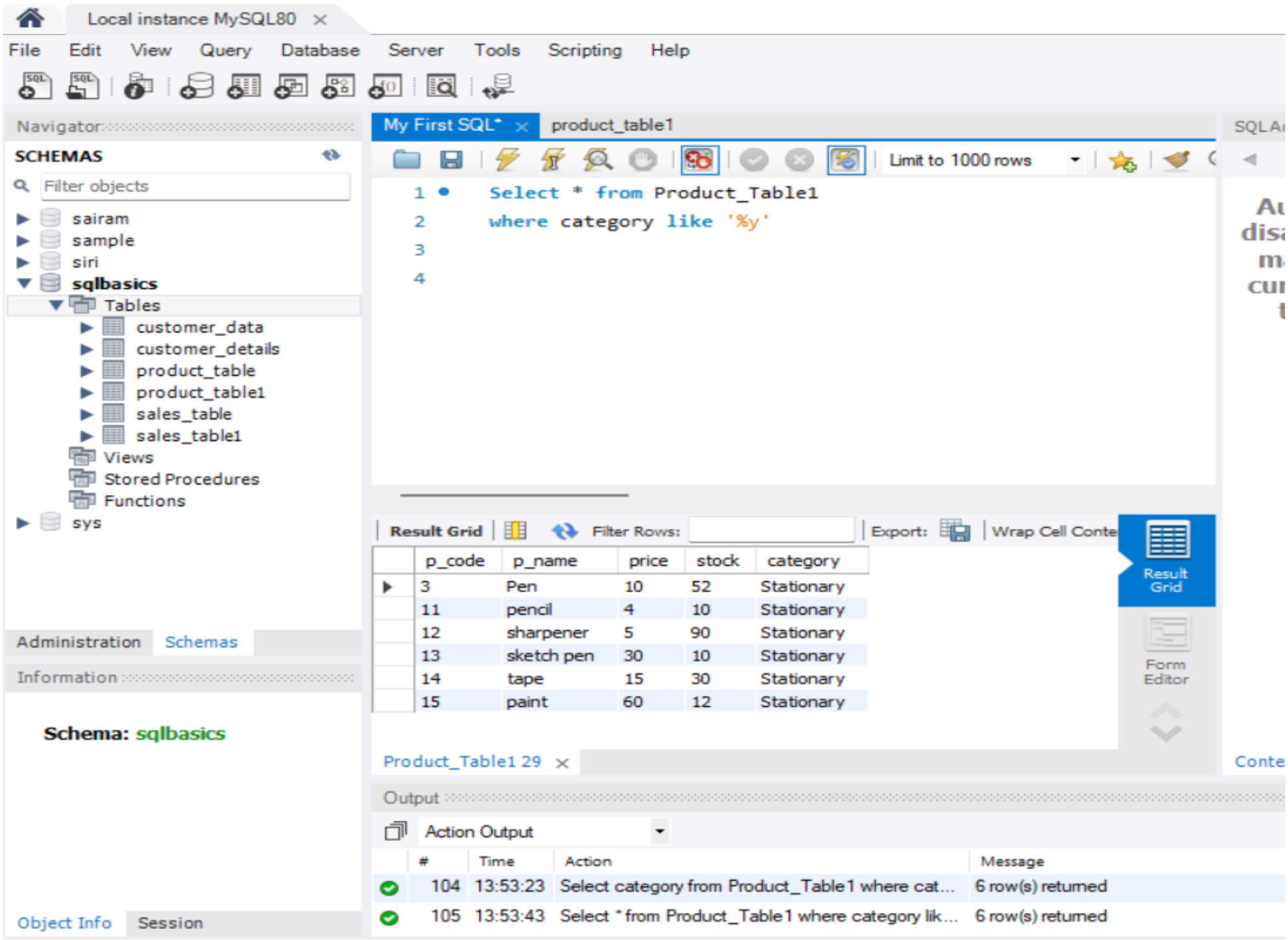
9. Write a query to **display** order id, customer id, order date, price, and quantity from the sales table.



```
SELECT Order_id, customer_id, date, price, qty
FROM sqlbasics.sales_table;
```

Order_id	customer_id	date	price	qty

10. Write a query to display all the details in the product table if the **category is stationary.**



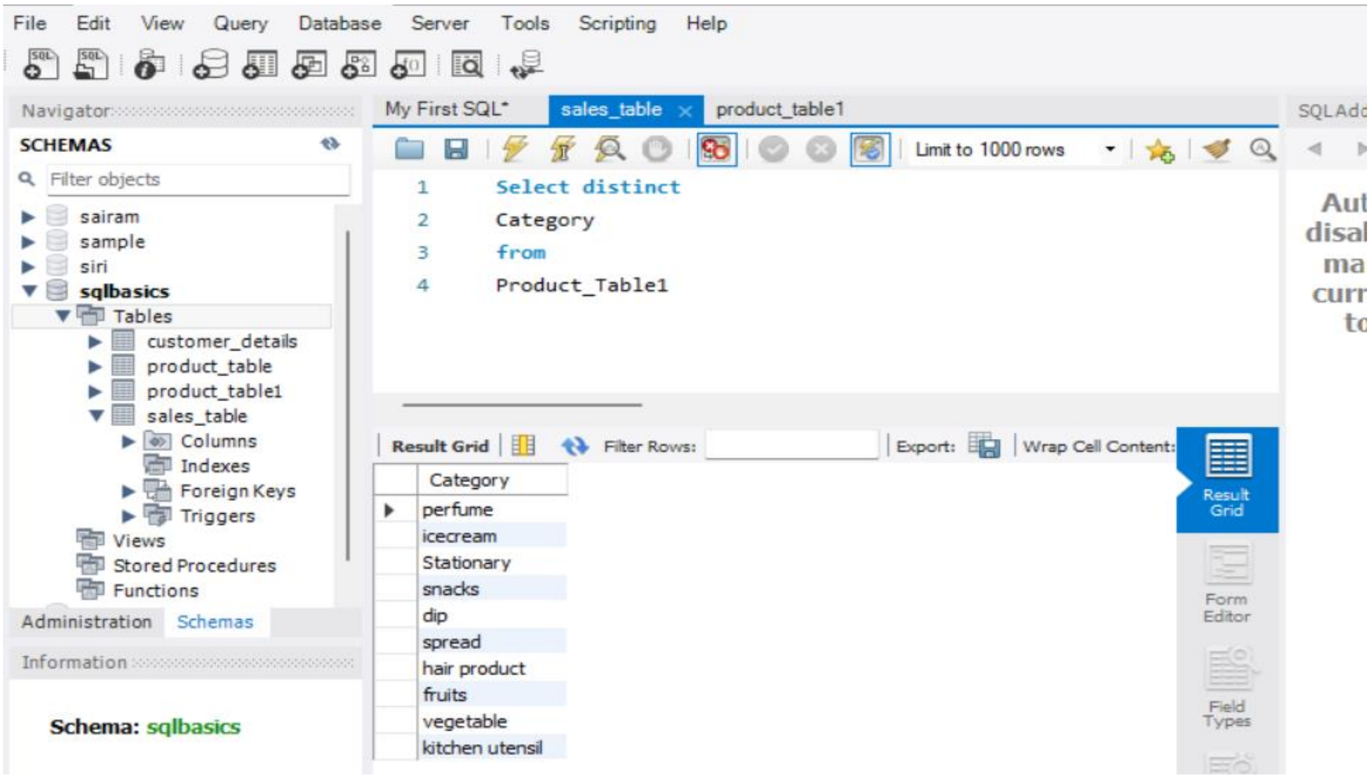
Schema: sqlbasics

```
Select * from Product_Table1
where category like '%y'
```

p_code	p_name	price	stock	category
3	Pen	10	52	Stationary
11	pencil	4	10	Stationary
12	sharpener	5	90	Stationary
13	sketch pen	30	10	Stationary
14	tape	15	30	Stationary
15	paint	60	12	Stationary

#	Time	Action	Message
104	13:53:23	Select category from Product_Table1 where cat...	6 row(s) returned
105	13:53:43	Select * from Product_Table1 where category lik...	6 row(s) returned

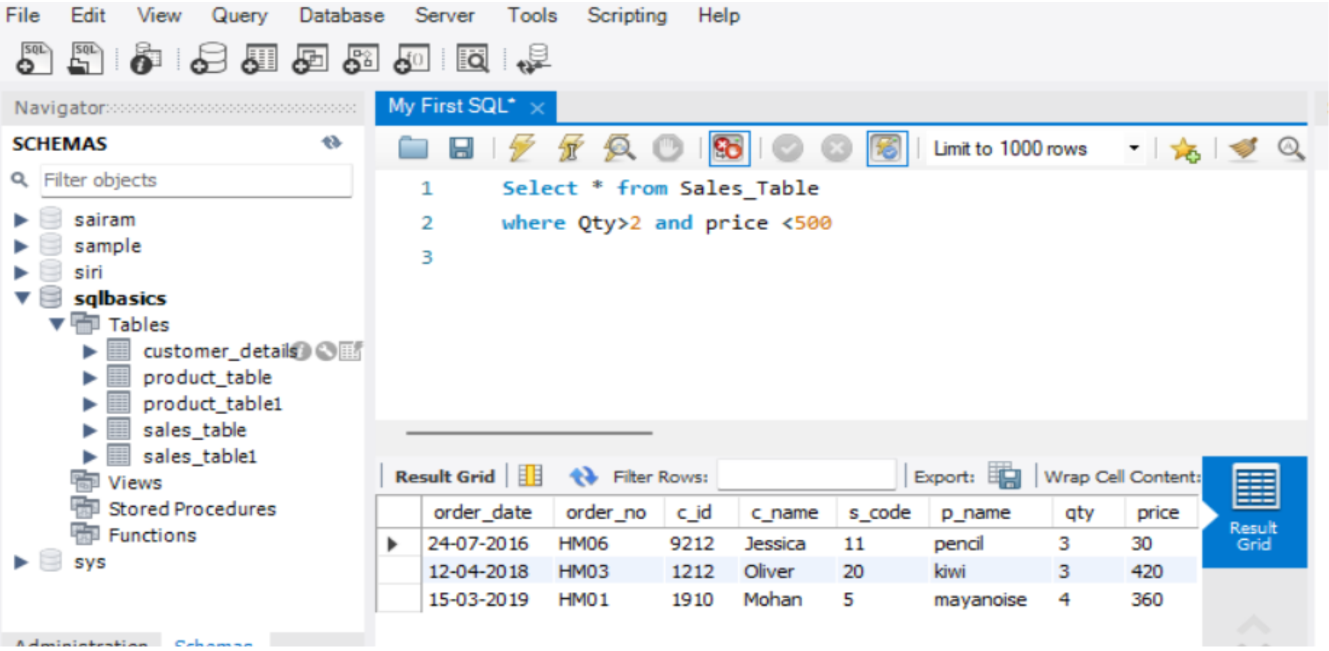
11. Write a query to display a **unique category** from the product table.



```
Select distinct
Category
from
Product_Table1
```

Category
perfume
icecream
Stationary
snacks
dip
spread
hair product
fruits
vegetable
kitchen utensil

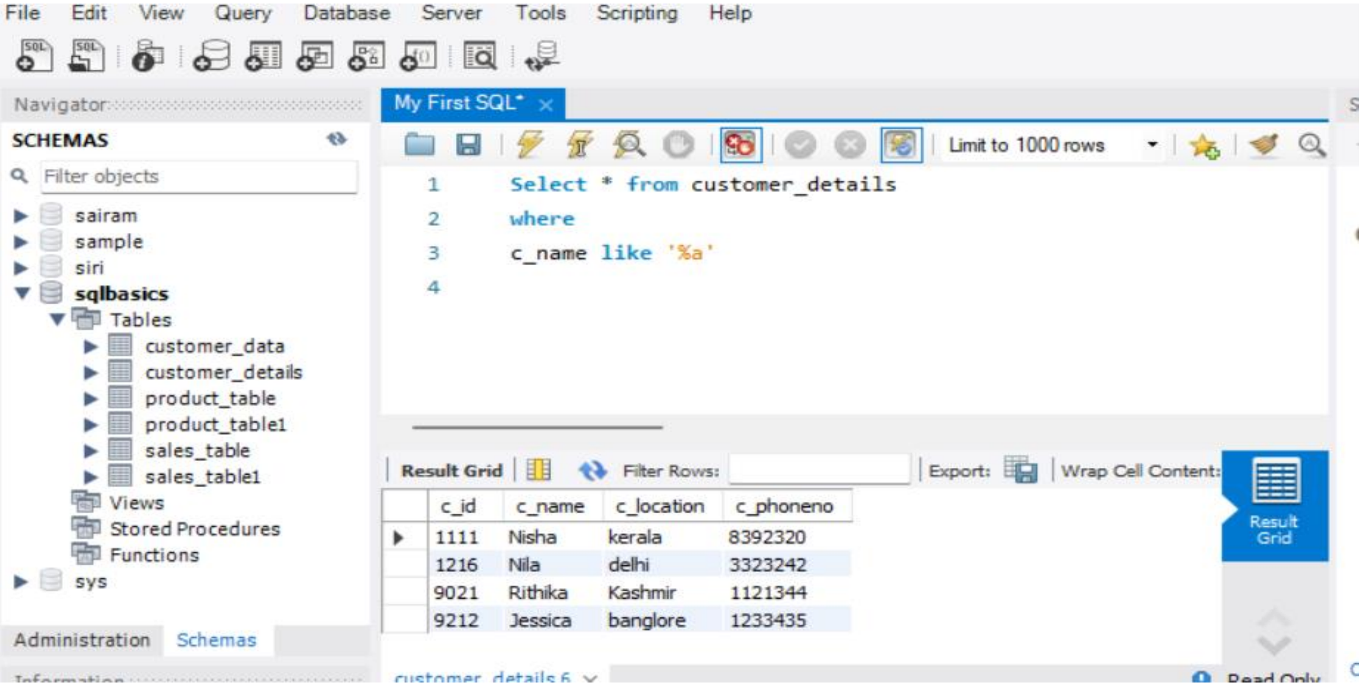
12. Write a query to display the sales details if **quantity is greater than 2** and **price is lesser than 500** from the sales table.



```
Select * from Sales_Table
where Qty>2 and price <500
```

order_date	order_no	c_id	c_name	s_code	p_name	qty	price
24-07-2016	HM06	9212	Jessica	11	pencil	3	30
12-04-2018	HM03	1212	Oliver	20	kiwi	3	420
15-03-2019	HM01	1910	Mohan	5	mayanoise	4	360

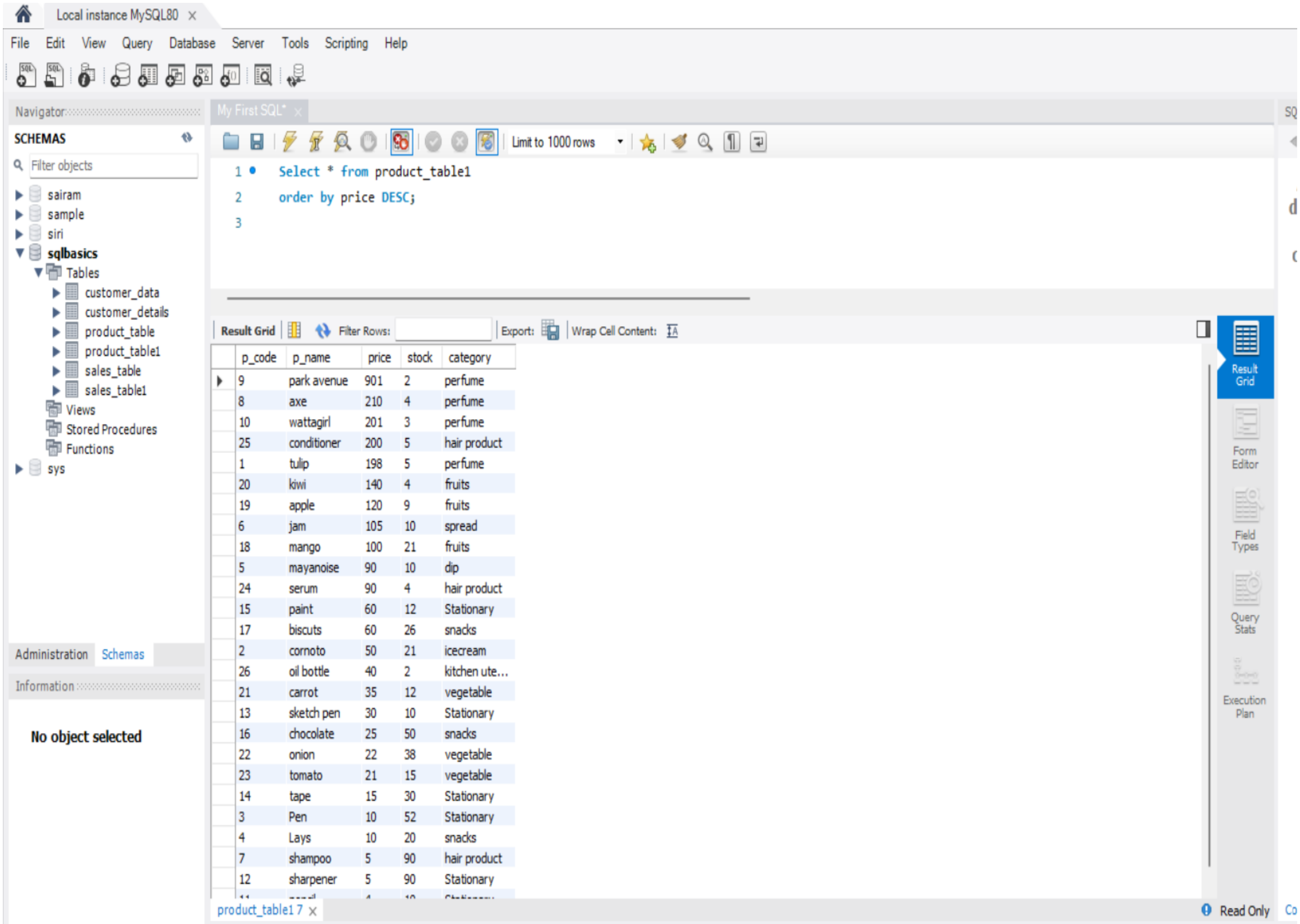
13. Write a query to display the customer’s name if the **name ends with a.**



```
Select * from customer_details
where
c_name like '%a'
```

	c_id	c_name	c_location	c_phoneno
▶	1111	Nisha	kerala	8392320
	1216	Nila	delhi	3323242
	9021	Rithika	Kashmir	1121344
	9212	Jessica	banglore	1233435

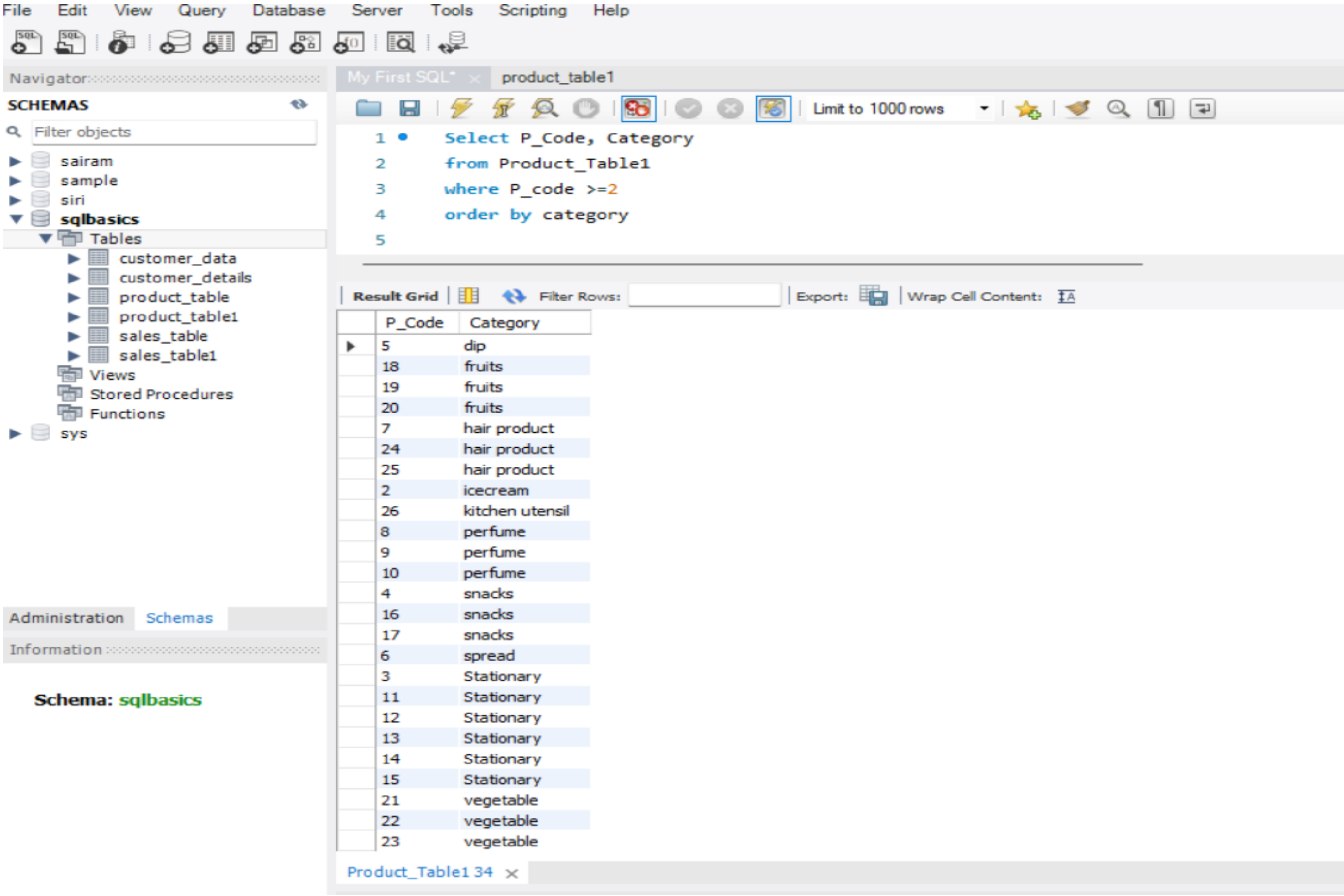
14. Write a query to display the product details in **descending order** of the **price.**



```
Select * from product_table1
order by price DESC;
```

	p_code	p_name	price	stock	category
▶	9	park avenue	901	2	perfume
	8	axe	210	4	perfume
	10	wattagirl	201	3	perfume
	25	conditioner	200	5	hair product
	1	tulip	198	5	perfume
	20	kiwi	140	4	fruits
	19	apple	120	9	fruits
	6	jam	105	10	spread
	18	mango	100	21	fruits
	5	mayanoise	90	10	dip
	24	serum	90	4	hair product
	15	paint	60	12	Stationary
	17	biscuts	60	26	snacks
	2	cornoto	50	21	icecream
	26	oil bottle	40	2	kitchen ute...
	21	carrot	35	12	vegetable
	13	sketch pen	30	10	Stationary
	16	chocolate	25	50	snacks
	22	onion	22	38	vegetable
	23	tomato	21	15	vegetable
	14	tape	15	30	Stationary
	3	Pen	10	52	Stationary
	4	Lays	10	20	snacks
	7	shampoo	5	90	hair product
	12	sharpener	5	90	Stationary
	11	pencil	4	10	Stationary

15. Write a query to display the product code and category from **similar categories** that are **greater than or equal to 2**.

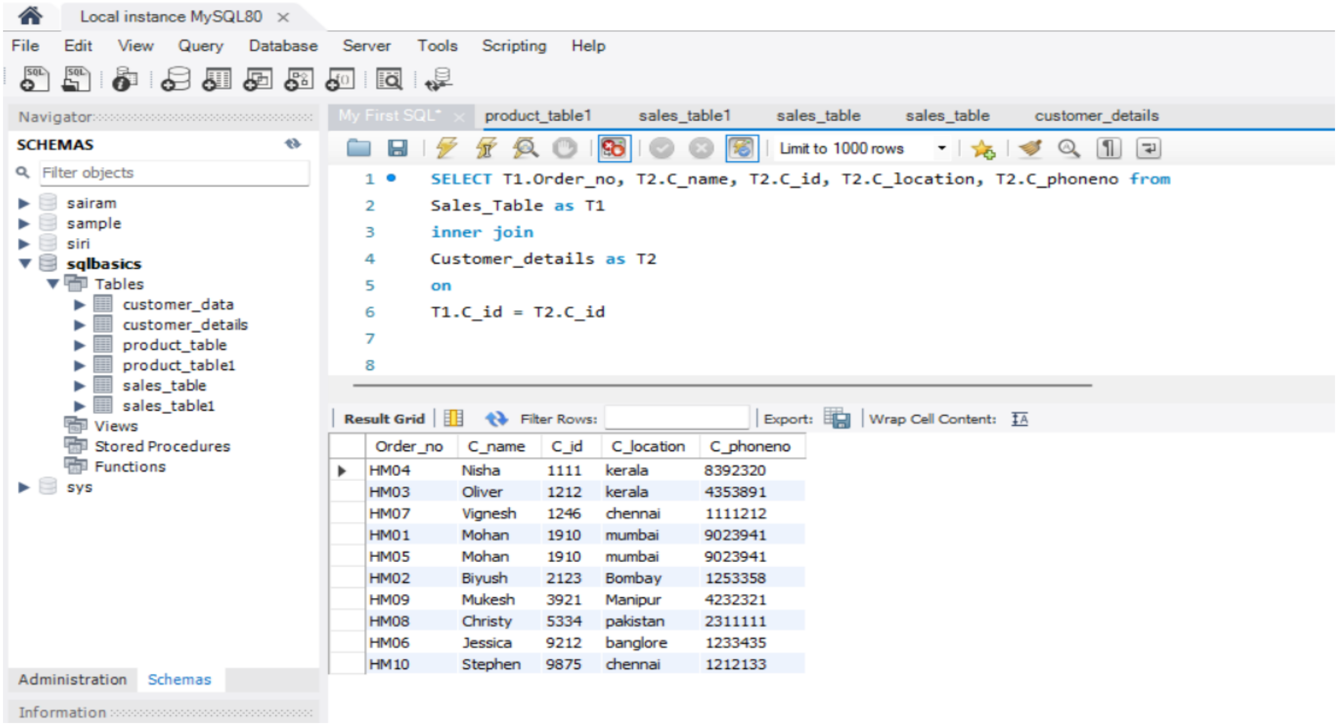


Schema: sqlbasics

```sql
Select P_Code, Category
from Product_Table1
where P_code >=2
order by category
```

P_Code	Category
5	dip
18	fruits
19	fruits
20	fruits
7	hair product
24	hair product
25	hair product
2	icecream
26	kitchen utensil
8	perfume
9	perfume
10	perfume
4	snacks
16	snacks
17	snacks
6	spread
3	Stationary
11	Stationary
12	Stationary
13	Stationary
14	Stationary
15	Stationary
21	vegetable
22	vegetable
23	vegetable

16. Write a query to display the order number and the customers' name to **combine** the results of the order and the customer tables including **duplicate rows**.



```sql
SELECT T1.Order_no, T2.C_name, T2.C_id, T2.C_location, T2.C_phoneno from
Sales_Table as T1
inner join
Customer_details as T2
on
T1.C_id = T2.C_id
```

Order_no	C_name	C_id	C_location	C_phoneno
HM04	Nisha	1111	kerala	8392320
HM03	Oliver	1212	kerala	4353891
HM07	Vignesh	1246	chennai	1111212
HM01	Mohan	1910	mumbai	9023941
HM05	Mohan	1910	mumbai	9023941
HM02	Biyush	2123	Bombay	1253358
HM09	Mukesh	3921	Manipur	4232321
HM08	Christy	5334	pakistan	2311111
HM06	Jessica	9212	banglore	1233435
HM10	Stephen	9875	chennai	1212133