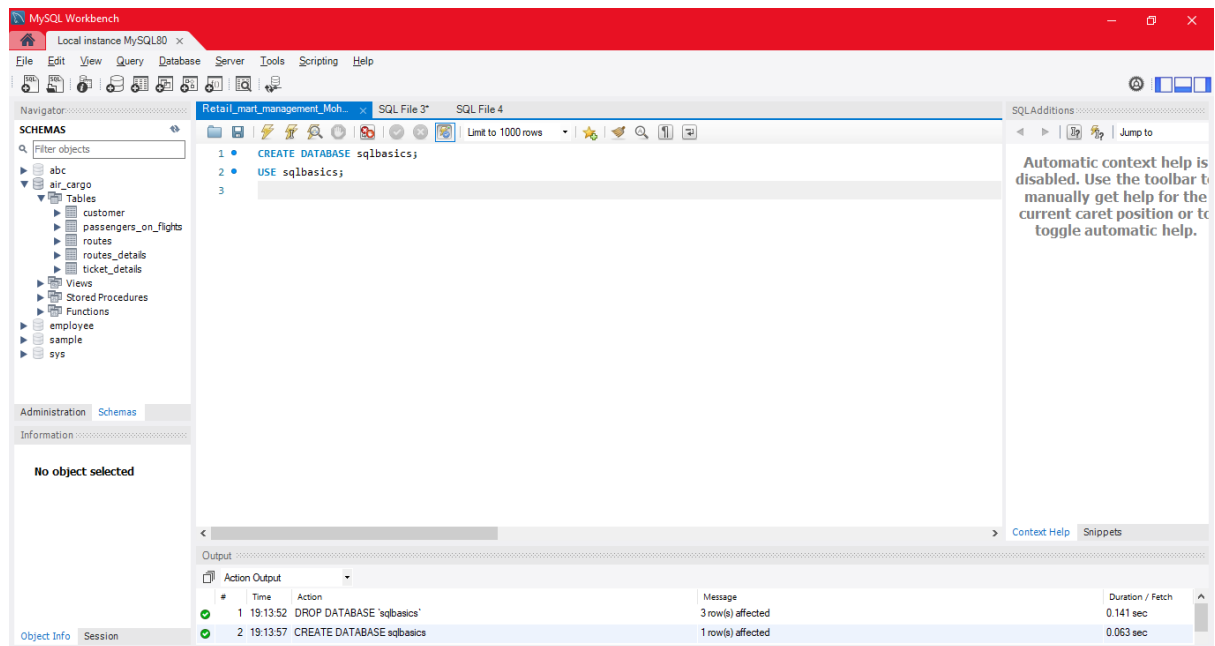
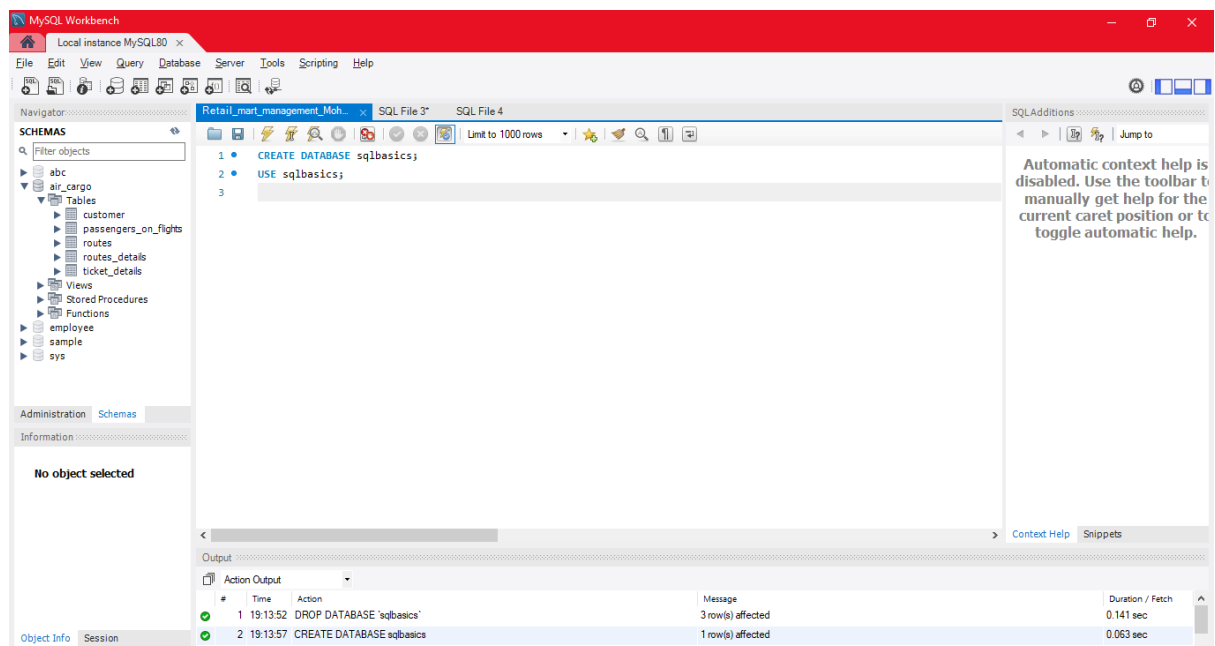


Retail Mart Management

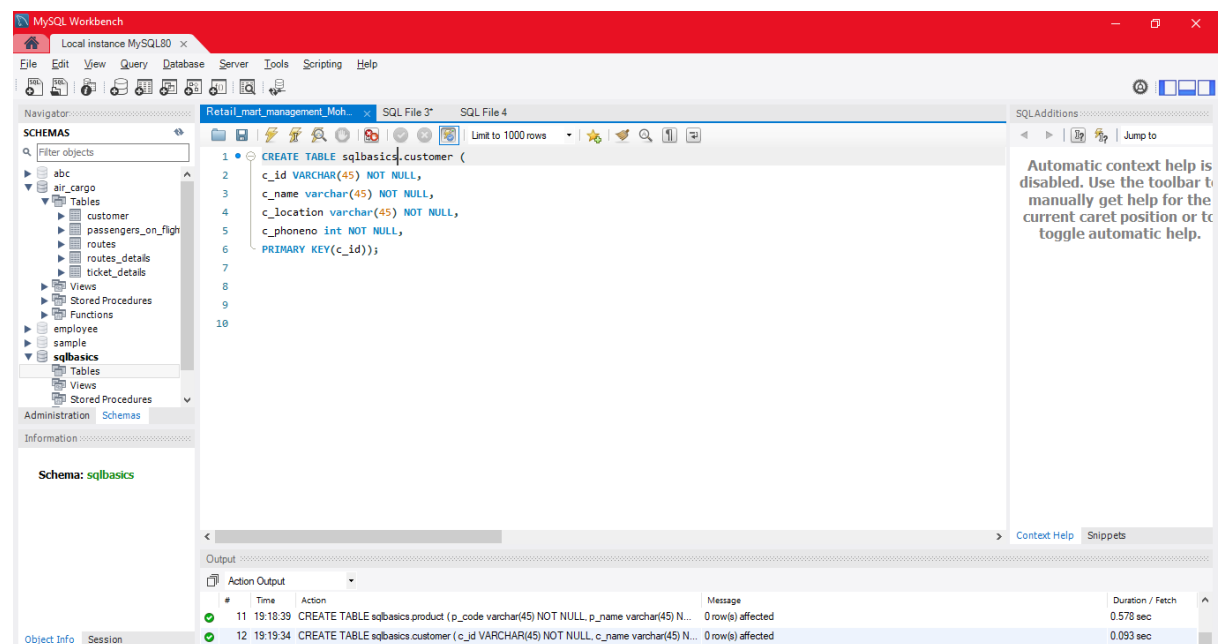
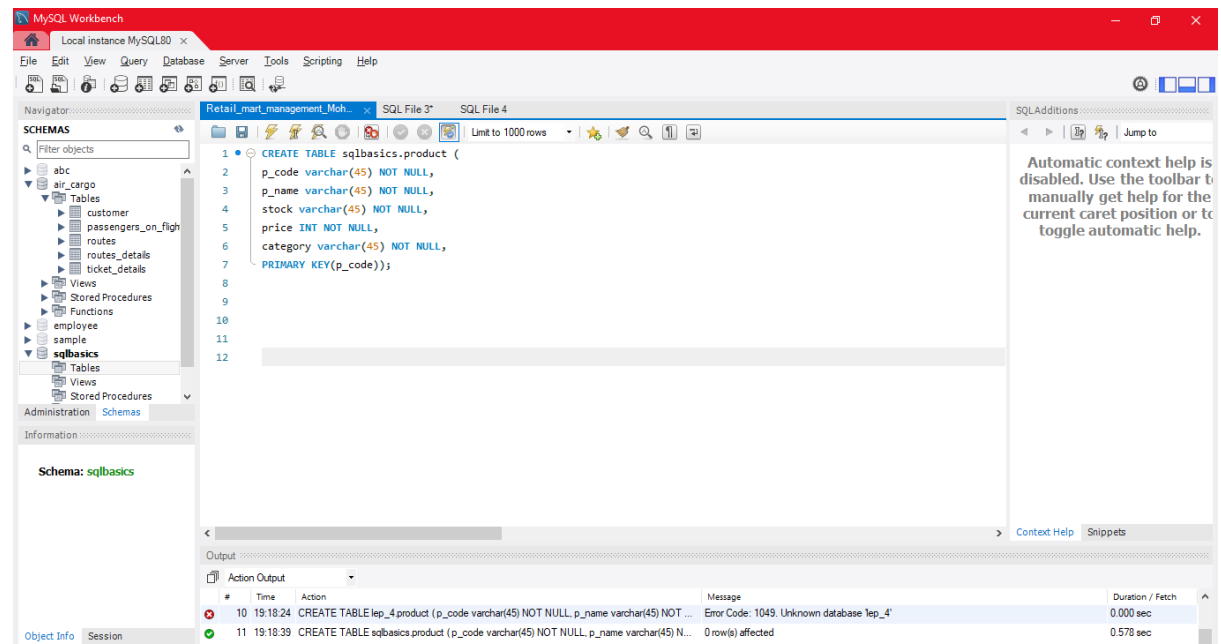
1. Write a query to create a database named SQL basics.

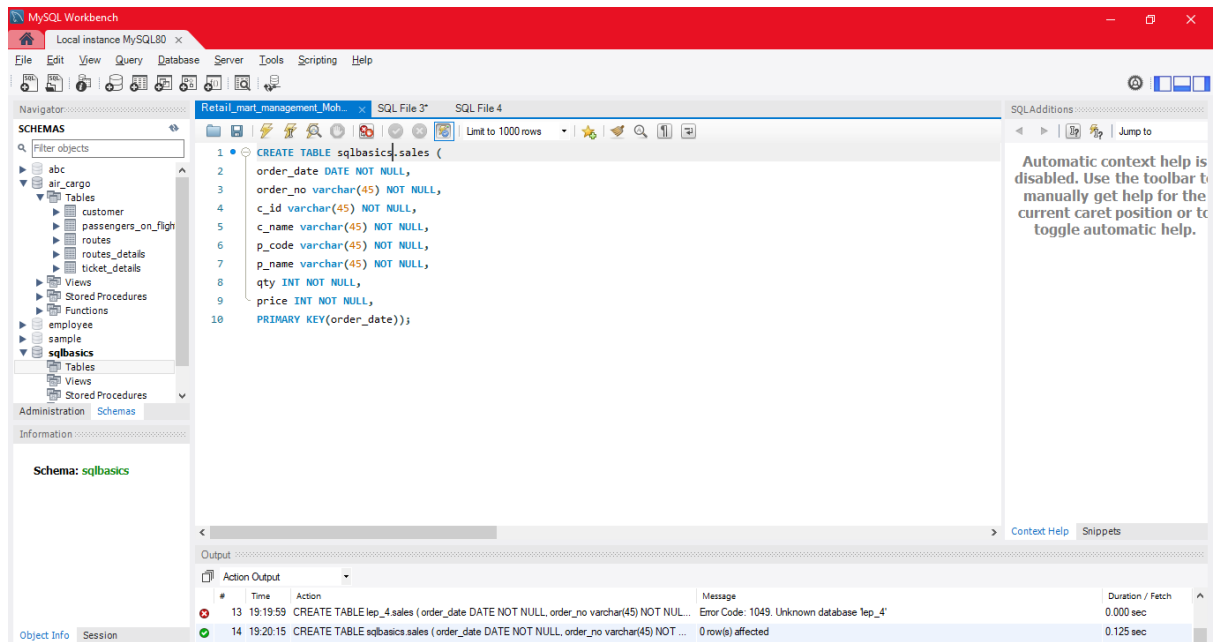


- 2, Write a query to select SQL basics



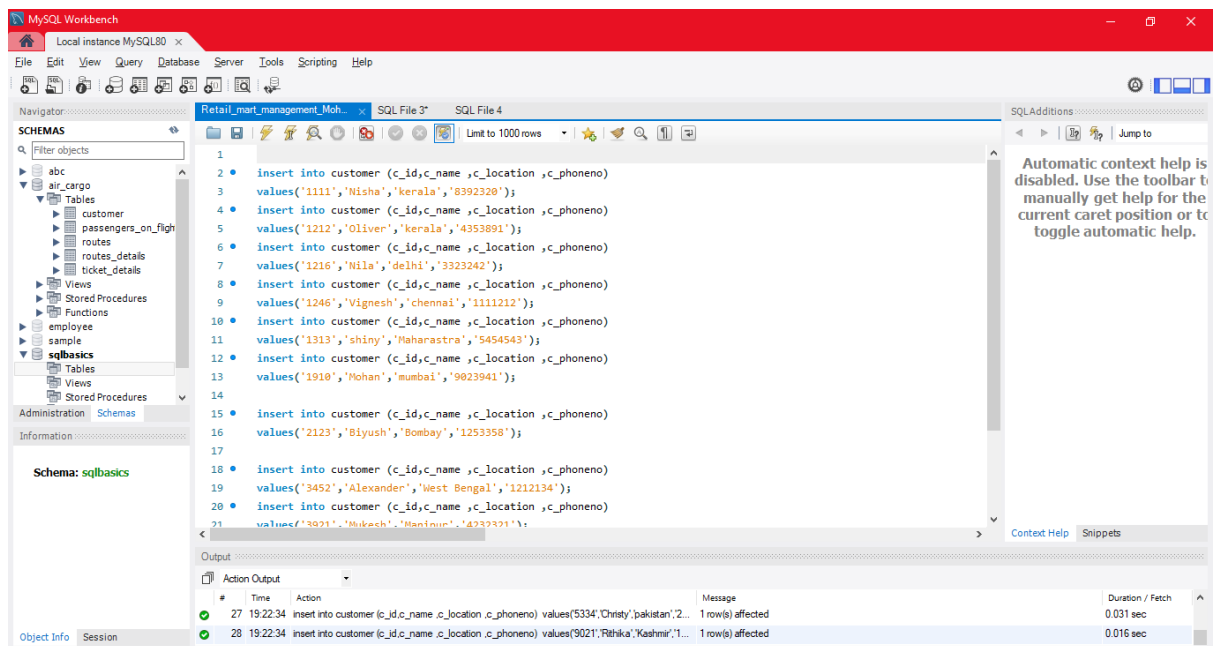
3, Write a query to create a product table with the fields product code, product name, price, stock, and category, a customer table with the fields customer ID, customer name, customer location, and customer phone number, and a sales table with the fields date, order number, product code, product name,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

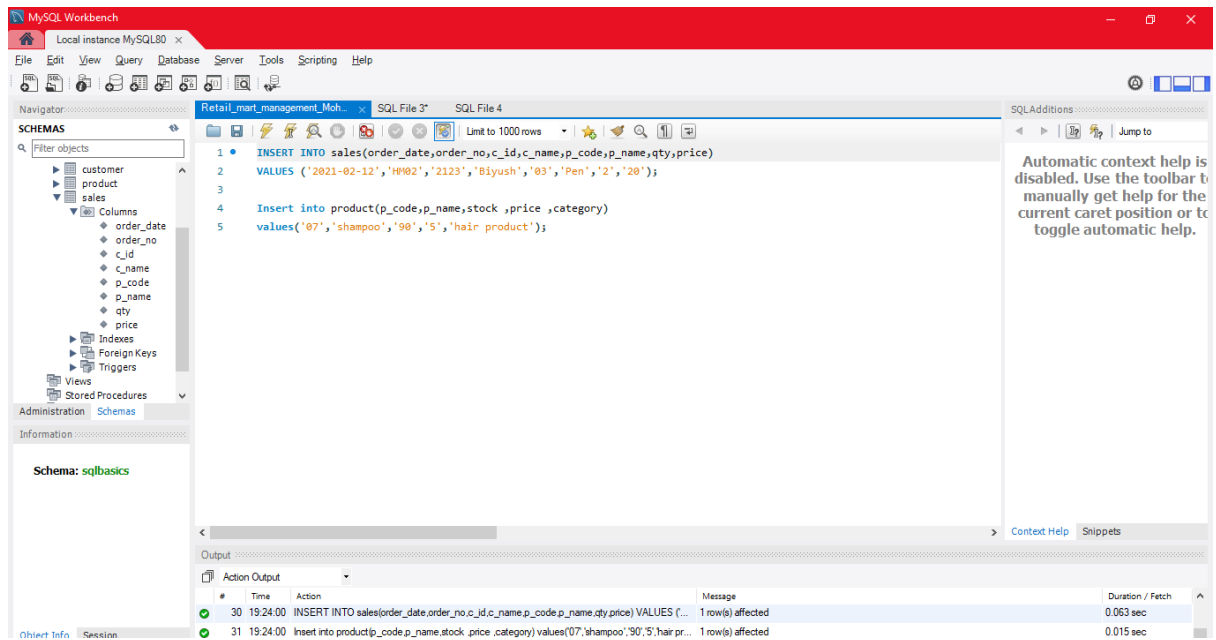




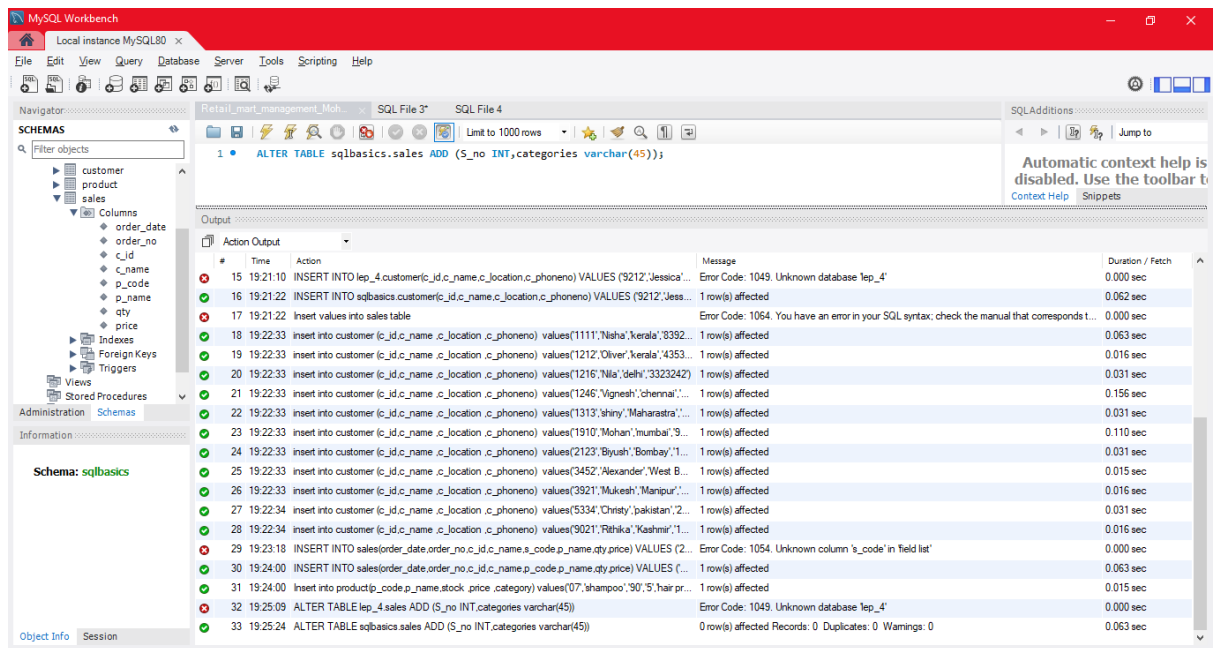
4, Write a query to insert values into the customer, product, and sales tables

Insert values into customer table





5, Write a query to add new columns, such as serial number and categories, to the sales table



6, Write a query to change the stock field type to varchar in the product table

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
ALTER TABLE sqlbasics.product MODIFY stock varchar(45);
```

The Output tab displays the execution results:

#	Time	Action	Message	Duration / Fetch
16	19:21:22	INSERT INTO sqlbasics.customer(c_id,c_name,c_location,c_phoneno) VALUES ('3212','Jessa',...	1 row(s) affected	0.062 sec
17	19:21:22	Insert values into sales table	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to...	0.000 sec
18	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1111','Nisha','kerala','8392...	1 row(s) affected	0.063 sec
19	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1212','Oliver','kerala','4353...	1 row(s) affected	0.016 sec
20	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1216','Nila','delhi','3323242)	1 row(s) affected	0.031 sec
21	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1246','Vignesh','chennai','...	1 row(s) affected	0.156 sec
22	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1313','shiny','Maharashtra','...	1 row(s) affected	0.031 sec
23	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1910','Mohan','mumbai','9...	1 row(s) affected	0.110 sec
24	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('2123','Biyush','Bombay','1...	1 row(s) affected	0.031 sec
25	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('3452','Alexander','West B...	1 row(s) affected	0.015 sec
26	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('3921','Mukesh','Manipur','...	1 row(s) affected	0.016 sec
27	19:22:34	insert into customer (c_id,c_name,c_location,c_phoneno) values('5334','Christy','pakistan','2...	1 row(s) affected	0.031 sec
28	19:22:34	insert into customer (c_id,c_name,c_location,c_phoneno) values('9021','Rithika','Kashmir','1...	1 row(s) affected	0.016 sec
29	19:23:18	INSERT INTO sales(order_date,order_no,c_id,c_name,s_code,p_name,qty,price) VALUES (2...	Error Code: 1054. Unknown column 's_code' in field list'	0.000 sec
30	19:24:00	INSERT INTO sales(order_date,order_no,c_id,c_name,p_code,p_name,qty,price) VALUES (2...	1 row(s) affected	0.063 sec
31	19:24:00	Insert into product(p_code,p_name,stock,price,category) values('07','shampoo','30','5','hair pr...	1 row(s) affected	0.015 sec
32	19:25:09	ALTER TABLE lep_4sales ADD (S_no INT,categories varchar(45))	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
33	19:25:24	ALTER TABLE sqlbasics sales ADD (S_no INT,categories varchar(45))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.063 sec
34	19:26:23	ALTER TABLE lep_4product MODIFY stock varchar(45)	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
35	19:26:53	ALTER TABLE sqlbasics product MODIFY stock varchar(45)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.297 sec

7, Write a query to change the table name from customer to customer details

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
ALTER TABLE sqlbasics.customer RENAME TO sqlbasics.customerdetails;
```

The Output tab displays the execution results:

#	Time	Action	Message	Duration / Fetch
18	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1111','Nisha','kerala','8392...	1 row(s) affected	0.063 sec
19	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1212','Oliver','kerala','4353...	1 row(s) affected	0.016 sec
20	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1216','Nila','delhi','3323242)	1 row(s) affected	0.031 sec
21	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1246','Vignesh','chennai','...	1 row(s) affected	0.156 sec
22	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1313','shiny','Maharashtra','...	1 row(s) affected	0.031 sec
23	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('1910','Mohan','mumbai','9...	1 row(s) affected	0.110 sec
24	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('2123','Biyush','Bombay','1...	1 row(s) affected	0.031 sec
25	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('3452','Alexander','West B...	1 row(s) affected	0.015 sec
26	19:22:33	insert into customer (c_id,c_name,c_location,c_phoneno) values('3921','Mukesh','Manipur','...	1 row(s) affected	0.016 sec
27	19:22:34	insert into customer (c_id,c_name,c_location,c_phoneno) values('5334','Christy','pakistan','2...	1 row(s) affected	0.031 sec
28	19:22:34	insert into customer (c_id,c_name,c_location,c_phoneno) values('9021','Rithika','Kashmir','1...	1 row(s) affected	0.016 sec
29	19:23:18	INSERT INTO sales(order_date,order_no,c_id,c_name,s_code,p_name,qty,price) VALUES (2...	Error Code: 1054. Unknown column 's_code' in field list'	0.000 sec
30	19:24:00	INSERT INTO sales(order_date,order_no,c_id,c_name,p_code,p_name,qty,price) VALUES (2...	1 row(s) affected	0.063 sec
31	19:24:00	Insert into product(p_code,p_name,stock,price,category) values('07','shampoo','30','5','hair pr...	1 row(s) affected	0.015 sec
32	19:25:09	ALTER TABLE lep_4sales ADD (S_no INT,categories varchar(45))	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
33	19:25:24	ALTER TABLE sqlbasics sales ADD (S_no INT,categories varchar(45))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.063 sec
34	19:26:23	ALTER TABLE lep_4product MODIFY stock varchar(45)	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
35	19:26:53	ALTER TABLE sqlbasics product MODIFY stock varchar(45)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.297 sec
36	19:27:51	ALTER TABLE sqlbasics customer RENAME TO lep_4.customerdetails	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
37	19:28:09	ALTER TABLE sqlbasics customer RENAME TO sqlbasics.customerdetails	0 row(s) affected	0.078 sec

8, Write a query to drop the sl. no. and categories columns from the sales table

The screenshot shows the MySQL Workbench interface. The SQL Editor contains two queries:

```
1 ALTER TABLE sqldbasics.sales DROP COLUMN S_no;
2 ALTER TABLE sqldbasics.sales DROP COLUMN categories;
```

The Output window shows the execution results of these queries and other database operations:

#	Time	Action	Message	Duration / Fetch
20	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(1216,'Nila','delhi','3323242')	1 row(s) affected	0.031 sec
21	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(1248,'Vgnesh','chennai','...')	1 row(s) affected	0.156 sec
22	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(1313,'shiny','Maharashtra','...')	1 row(s) affected	0.031 sec
23	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(1910,'Mohan','Bombay','9...')	1 row(s) affected	0.110 sec
24	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(2123,'Biyush','Bombay','1...')	1 row(s) affected	0.031 sec
25	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(3452,'Alexander','West B...')	1 row(s) affected	0.015 sec
26	19:22:33	Insert into customer (c_id,c_name,c_location,c_phoneno) values(3921,'Mukesh','Manipur','...')	1 row(s) affected	0.016 sec
27	19:22:34	Insert into customer (c_id,c_name,c_location,c_phoneno) values(5334,'Christy','Kashmir','2...')	1 row(s) affected	0.031 sec
28	19:22:34	Insert into customer (c_id,c_name,c_location,c_phoneno) values(9021,'Rithika','Kashmir','1...')	1 row(s) affected	0.016 sec
29	19:23:18	INSERT INTO sales(order_date,order_no,c_id,c_name,s_code,p_name,qty,price) VALUES (2...	Error Code: 1054. Unknown column 's_code' in field list'	0.000 sec
30	19:24:00	INSERT INTO sales(order_date,order_no,c_id,c_name,p_code,p_name,qty,price) VALUES (...)	1 row(s) affected	0.063 sec
31	19:24:00	Insert into product(p_code,p_name,stock,price,category) values(07,'shampoo','90','5','hair pr...	1 row(s) affected	0.015 sec
32	19:25:09	ALTER TABLE lep_4sales ADD (S_no INT,categories varchar(45))	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
33	19:25:24	ALTER TABLE sqldbasics sales ADD (S_no INT,categories varchar(45))	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.063 sec
34	19:26:23	ALTER TABLE lep_4product MODIFY stock varchar(45)	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
35	19:26:53	ALTER TABLE sqldbasics product MODIFY stock varchar(45)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.297 sec
36	19:27:51	ALTER TABLE sqldbasics customer RENAME TO lep_4.customerdetails	Error Code: 1049. Unknown database 'lep_4'	0.000 sec
37	19:28:09	ALTER TABLE sqldbasics customer RENAME TO sqldbasics.customerdetails	0 row(s) affected	0.078 sec
38	19:29:07	ALTER TABLE sqldbasics sales DROP COLUMN S_no	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.110 sec
39	19:29:07	ALTER TABLE sqldbasics sales DROP COLUMN categories	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec

9, Write a query to display the details where the category is stationary from the product table

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following query:

```
1 SELECT order_no, order_date, price, qty
2 FROM SALES_TABLE;
```

The Result Grid shows the output of the query:

order_no	order_date	price	qty
HM06	2016-07-24	30	3
HM09	2016-10-19	600	10
HM10	2016-10-30	500	10
HM05	2018-02-05	280	2
HM08	2018-09-20	50	2
HM03	2018-12-04	420	3
HM01	2019-03-15	360	4
HM07	2019-11-01	600	5
HM04	2021-10-02	1000	5
HM02	2021-12-02	20	2

The Output window shows the execution results of the query and other database operations:

#	Time	Action	Message	Duration / Fetch
57	19:47:52	INSERT INTO CUSTOMER_TABLE(c_id,c_name,c_location,c_phoneno) VALUES ('11...')	13 row(s) affected Records: 13 Duplicates: 0 Warnings: 0	0.016 sec
58	19:47:52	INSERT INTO SALES_TABLE(order_date,order_no,c_id,c_name,s_code,p_name,qty,price) VALUES (...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.015 sec
59	19:49:29	ALTER TABLE CUSTOMER_TABLE RENAME TO CUSTOMER_DETAILS	0 row(s) affected	0.110 sec
60	19:50:08	SELECT order_no, order_date, price, qty FROM SALES_TABLE LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

10, Write a query to display the details where the category is stationary from the product table

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 • SELECT * FROM PRODUCT_TABLE
2 WHERE CATEGORY = "STATIONARY";
```

The Result Grid displays the following data:

p_code	p_name	price	stock	category
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
3	Pen	10	52	Stationary

The Output pane shows the following action output:

#	Time	Action	Message	Duration / Fetch
58	19:47:52	INSERT INTO SALES_TABLE(order_date, order_no, c_id, c_name, s_code, p_name, qty, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.015 sec
59	19:49:29	ALTER TABLE CUSTOMER_TABLE RENAME TO CUSTOMER_DETAILS	0 row(s) affected	0.110 sec
60	19:50:08	SELECT order_no, order_date, price, qty FROM SALES_TABLE LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
61	19:50:29	SELECT * FROM PRODUCT_TABLE WHERE CATEGORY = "STATIONARY" LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

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

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 • SELECT DISTINCT CATEGORY
2 FROM PRODUCT_TABLE
3 ORDER BY CATEGORY;
```

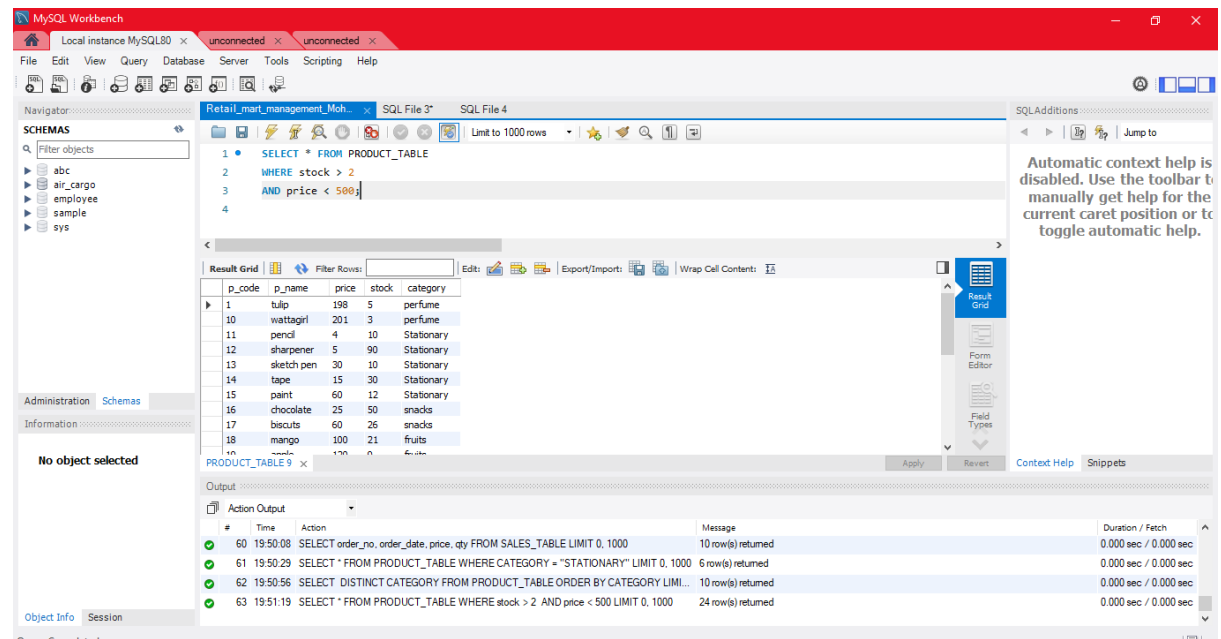
The Result Grid displays the following data:

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

The Output pane shows the following action output:

#	Time	Action	Message	Duration / Fetch
59	19:49:29	ALTER TABLE CUSTOMER_TABLE RENAME TO CUSTOMER_DETAILS	0 row(s) affected	0.110 sec
60	19:50:08	SELECT order_no, order_date, price, qty FROM SALES_TABLE LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
61	19:50:29	SELECT * FROM PRODUCT_TABLE WHERE CATEGORY = "STATIONARY" LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
62	19:50:56	SELECT DISTINCT CATEGORY FROM PRODUCT_TABLE ORDER BY CATEGORY LIM...	10 row(s) returned	0.000 sec / 0.000 sec

12, Write a query to display the details of the sales from the sales table where quantity is greater than 2 and the price is less than 500



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 SELECT * FROM PRODUCT_TABLE
2 WHERE stock > 2
3 AND price < 500;
```

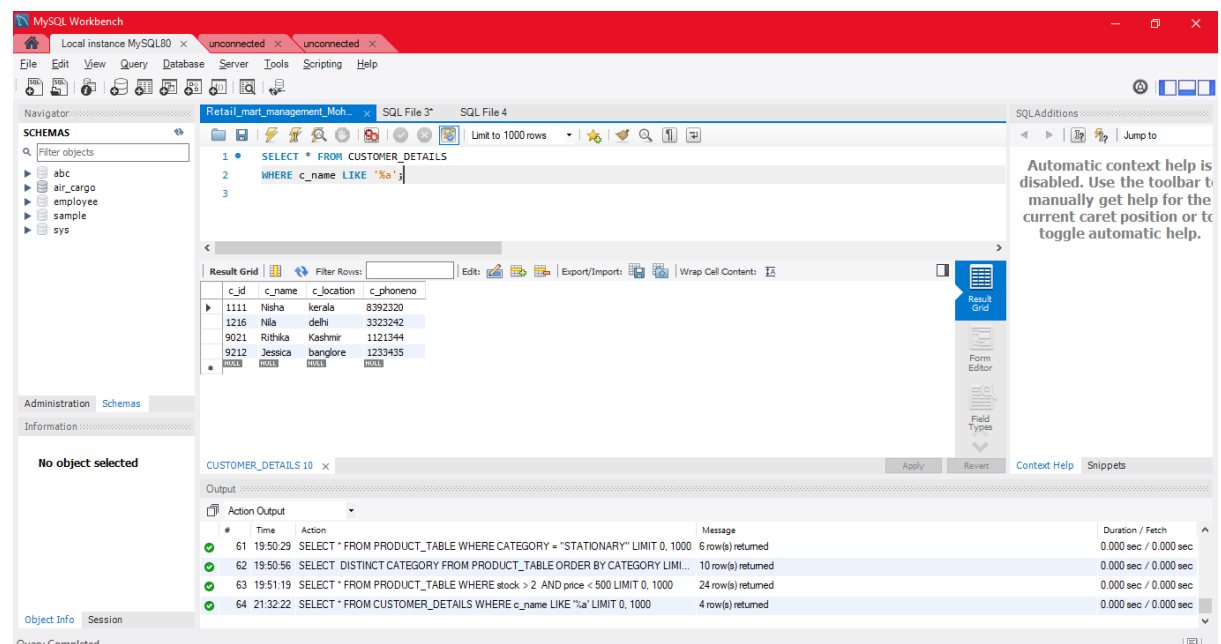
The Results tab displays the following data:

p_code	p_name	price	stock	category
1	tulip	198	5	perfume
10	wattagirl	201	3	perfume
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
16	chocolate	25	50	snacks
17	biscuits	60	26	snacks
18	mango	100	21	fruits
19	apple	120	0	fruits

The Output tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
60	19:50:08	SELECT order_no, order_date, price, qty FROM SALES_TABLE LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
61	19:50:29	SELECT * FROM PRODUCT_TABLE WHERE CATEGORY = "STATIONARY" LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
62	19:50:56	SELECT DISTINCT CATEGORY FROM PRODUCT_TABLE ORDER BY CATEGORY LIM...	10 row(s) returned	0.000 sec / 0.000 sec
63	19:51:19	SELECT * FROM PRODUCT_TABLE WHERE stock > 2 AND price < 500 LIMIT 0, 1000	24 row(s) returned	0.000 sec / 0.000 sec

13, Write a query to display every customer whose name ends with an 'a'



The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 SELECT * FROM CUSTOMER_DETAILS
2 WHERE c_name LIKE '%a';
```

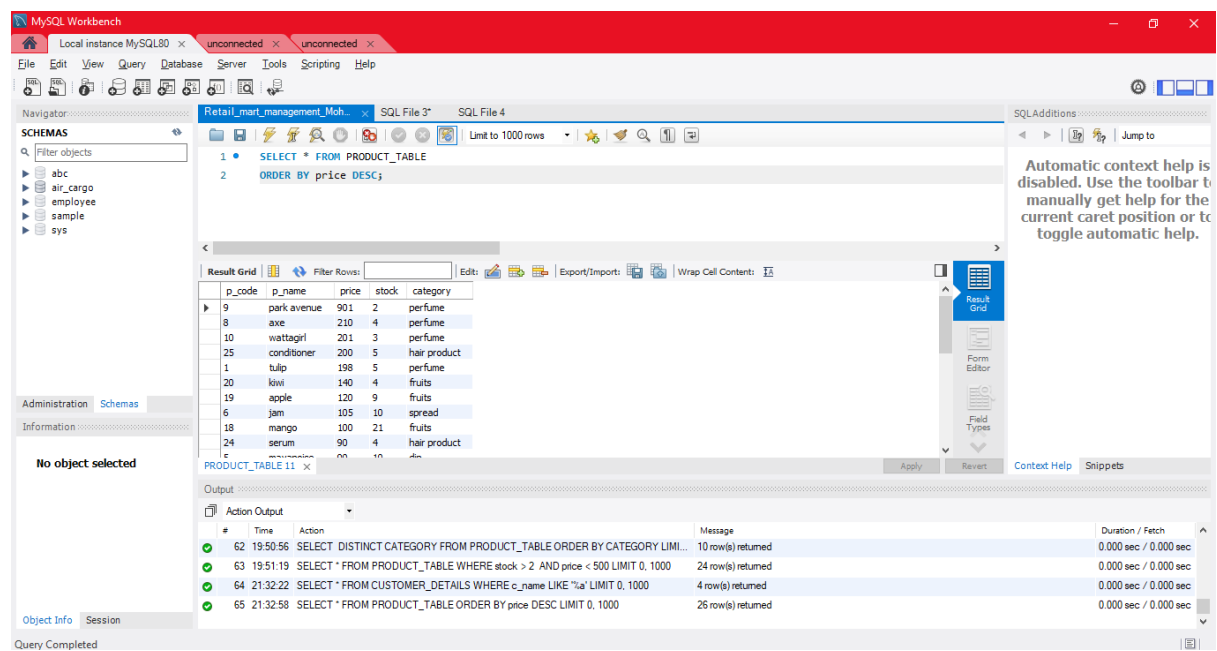
The Results tab displays the following data:

c_id	c_name	c_location	c_phoneno
1111	Nisha	kerala	8392320
1216	Nila	delhi	3323242
9021	Ruthika	Kashmir	1121344
9212	Jessica	bangalore	1233435

The Output tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
61	19:50:29	SELECT * FROM PRODUCT_TABLE WHERE CATEGORY = "STATIONARY" LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
62	19:50:56	SELECT DISTINCT CATEGORY FROM PRODUCT_TABLE ORDER BY CATEGORY LIM...	10 row(s) returned	0.000 sec / 0.000 sec
63	19:51:19	SELECT * FROM PRODUCT_TABLE WHERE stock > 2 AND price < 500 LIMIT 0, 1000	24 row(s) returned	0.000 sec / 0.000 sec
64	21:32:22	SELECT * FROM CUSTOMER_DETAILS WHERE c_name LIKE "%a" LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

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



15, Write a query to display the product code and category from categories that have two or more products.

	p_code	category
▶	01	perfume
	03	Stationary
	04	snacks
	07	hair product
	18	fruits
	21	vegetable
*	NULL	NULL

16, Write a query to combine the sales and product tables based on the order number and customer's name including duplicated rows

The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following query:

```
1 SELECT order_no, c_name FROM SALES_TABLE LEFT JOIN PRODUCT_TABLE ON
2 SALES_TABLE.s_code = PRODUCT_TABLE.p_code
3 UNION ALL
4 SELECT order_no, c_name FROM SALES_TABLE RIGHT JOIN PRODUCT_TABLE ON
5 SALES_TABLE.s_code = PRODUCT_TABLE.p_code;
```

The Results window displays the output of the query in a grid format:

order_no	c_name
HM06	Jessica
HM09	Mukesh
HM10	Stephen
HM05	Mohan
HM08	Christy
HM03	Oliver
HM01	Mohan
HM07	Vignesh
HM04	Nisha
HM02	Bryush
NULL	NULL
NULL	NULL
HM06	Jessica
NULL	NULL
NULL	NULL

The left sidebar shows the database schema, including tables like `customer_details` and `product_table`. The bottom status bar indicates "Query Executed".