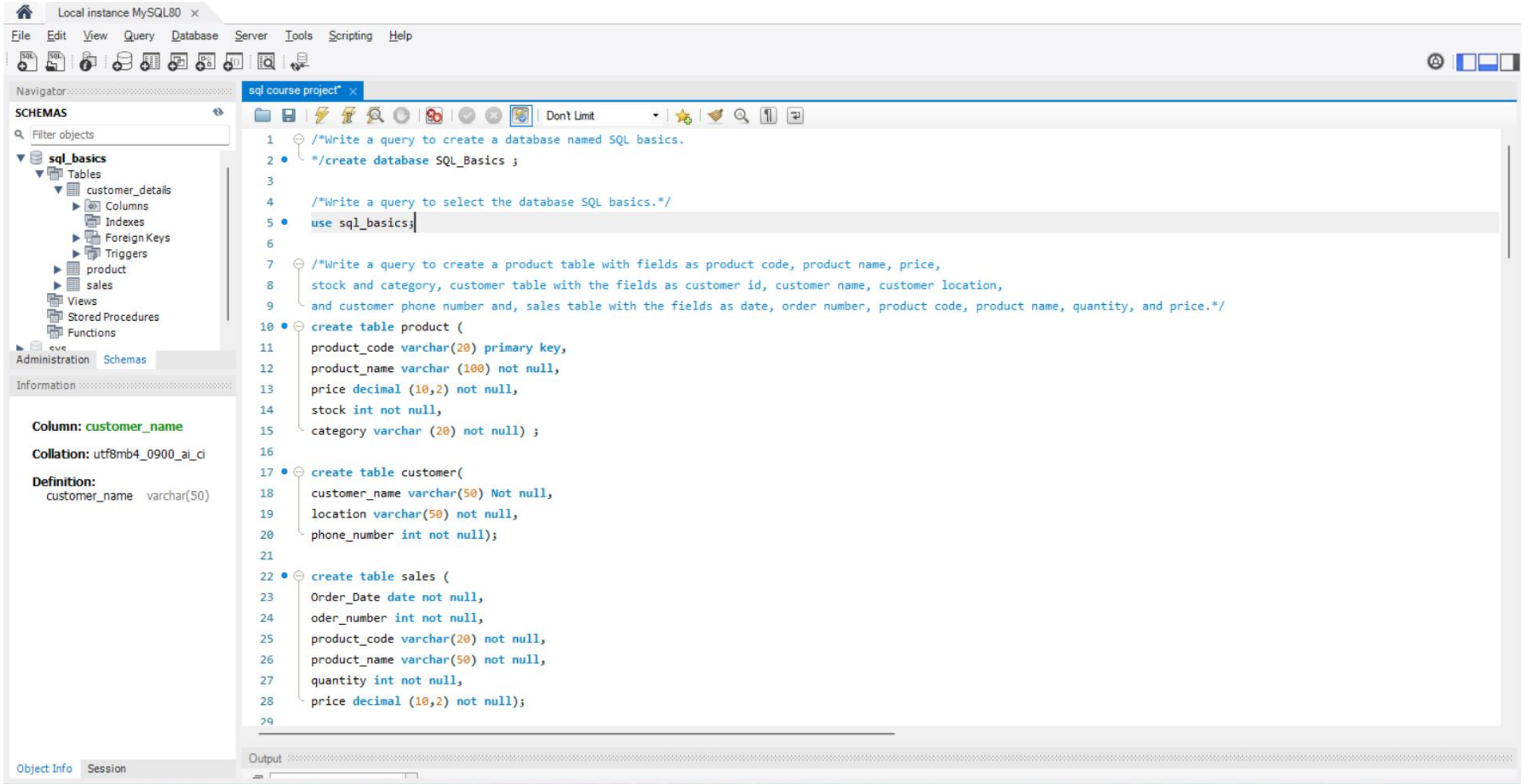
A data analyst of a retail shop, Happy Mart, wants to store the product details, the customer details, and the order details to provide unparalleled insights about custom behavior and product stock details daily.

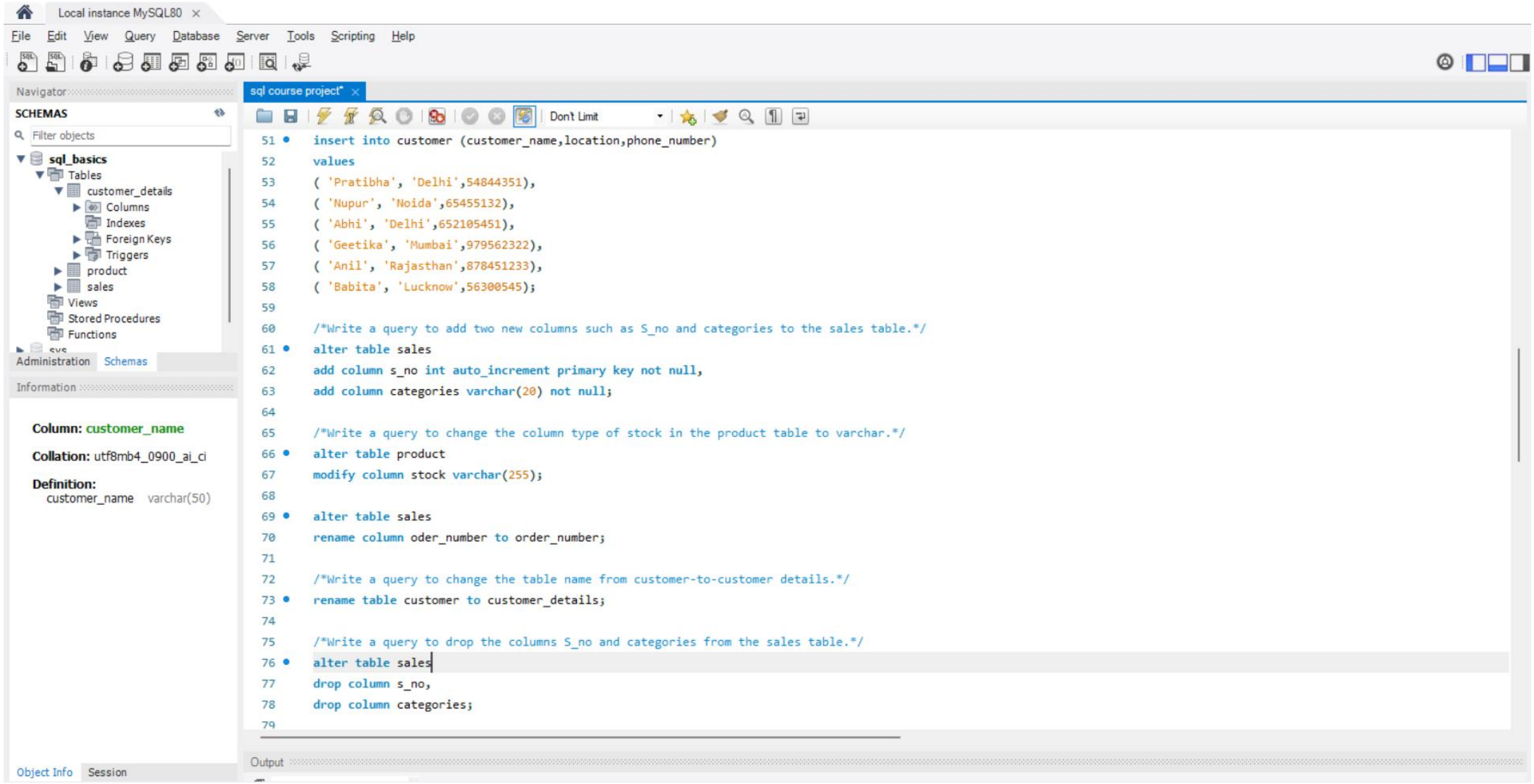
Objective:

The design of the database helps to easily evaluate and identify the performance of the shop to increase the daily sales.

Task to be performed:

- Write a query to create a database named **SQL basics**.
- Write a query to select the database **SQL basics**.
- 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.
- Write a query to **insert values** into the tables.
- Write a query to add two new columns such as **S_no** and **categories** to the sales table.
- Write a query to change the column type of **stock** in the product table to **varchar**.
- Write a query to **change** the table name from **customer**-to-**customer** details.
- Write a query to **drop** the columns **S_no** and **categories** from the sales table.
- Write a query to **display** order id, customer id, order date, price, and quantity from the sales table.
- Write a query to display all the details in the product table if the **category is stationary**.
- Write a query to display a **unique category** from the product table.
- Write a query to display the sales details if **quantity is greater than 2** and **price is lesser than 500** from the sales table.
- Write a query to display the customer's name if the **name ends with a**.
- Write a query to display the product details in **descending order** of the **price**.
- Write a query to display the product code and category from **similar categories** that are **greater than or equal to 2**.
- Write a query to display the order number and the customer name to **combine** the results of the order and the customer tables including **duplicate rows**.


Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sql_basics
Tables
customer_details
Columns
Indexes
Foreign Keys
Triggers
product
sales
Views
Stored Procedures
Functions
Administration Schemas
Information
Column: customer_name
Collation: utf8mb4_0900_ai_ci
Definition:
customer_name varchar(50)
Object Info Session
sql course project*
Don't Limit
/*Write a query to create a database named SQL basics.
*/create database SQL_Basics ;
/*Write a query to select the database SQL basics.*/
use sql_basics;
/*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.*/
create table product (
product_code varchar(20) primary key,
product_name varchar (100) not null,
price decimal (10,2) not null,
stock int not null,
category varchar (20) not null) ;
create table customer(
customer_name varchar(50) Not null,
location varchar(50) not null,
phone_number int not null);
create table sales (
Order_Date date not null,
oder_number int not null,
product_code varchar(20) not null,
product_name varchar(50) not null,
quantity int not null,
price decimal (10,2) not null);
Output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File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sql_basics
Tables
customer_details
Columns
Indexes
Foreign Keys
Triggers
product
sales
Views
Stored Procedures
Functions
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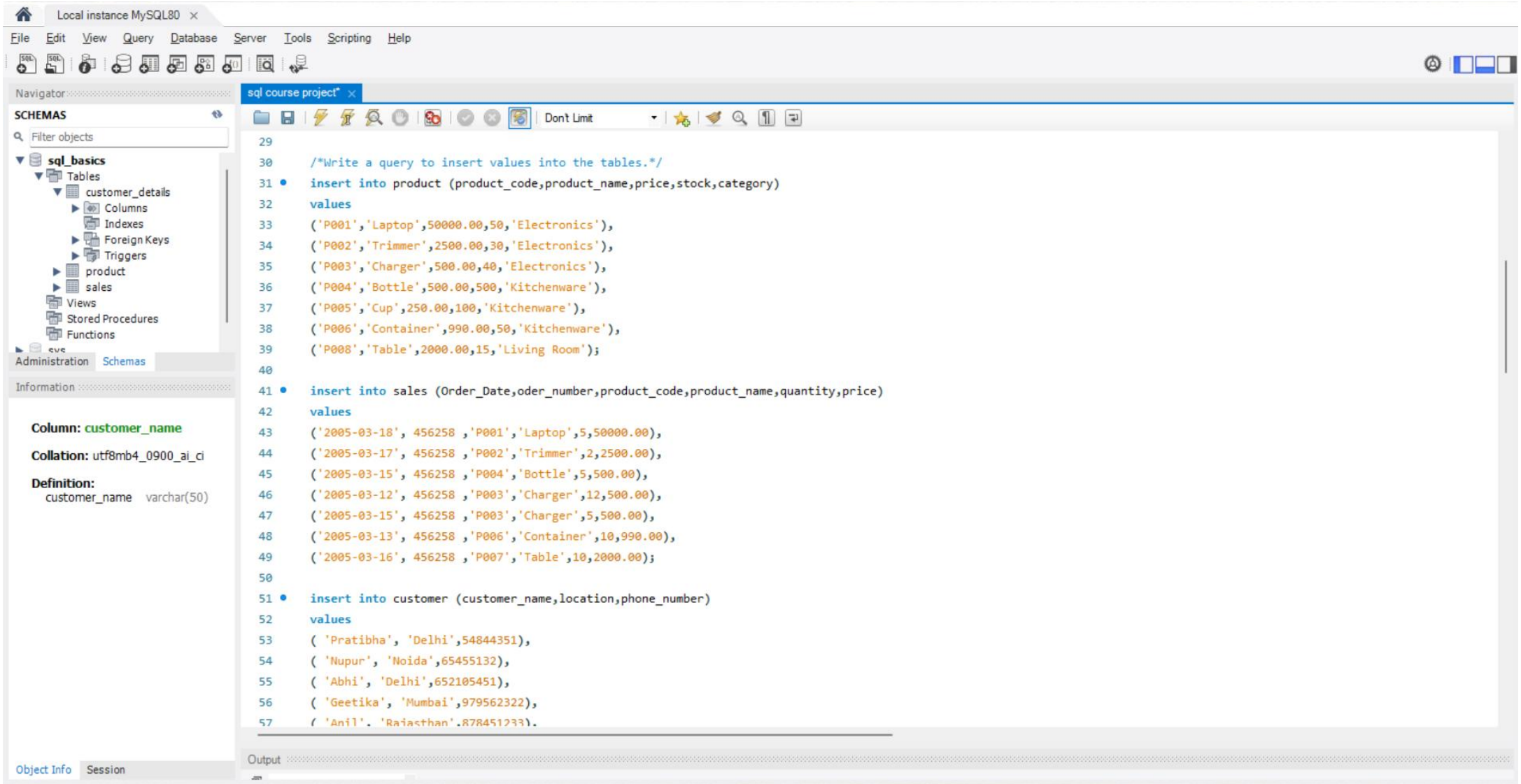
Information
Column: customer_name
Collation: utf8mb4_0900_ai_ci
Definition:
customer_name varchar(50)
Object Info Session
sql course project*
Don't Limit
insert into customer (customer_name,location,phone_number)
values
('Pratibha', 'Delhi',54844351),
('Nupur', 'Noida',65455132),
('Abhi', 'Delhi',652105451),
('Geetika', 'Mumbai',979562322),
('Anil', 'Rajasthan',878451233),
('Babita', 'Lucknow',56300545);
/*Write a query to add two new columns such as S_no and categories to the sales table.*/
alter table sales
add column s_no int auto_increment primary key not null,
add column categories varchar(20) not null;
/*Write a query to change the column type of stock in the product table to varchar.*/
alter table product
modify column stock varchar(255);
alter table sales
rename column oder_number to order_number;
/*Write a query to change the table name from customer-to-customer details.*/
rename table customer to customer_details;
/*Write a query to drop the columns S_no and categories from the sales table.*/
alter table sales
drop column s_no,
drop column categories;
Output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Navigator
SCHEMAS
Filter objects
sql_basics
Tables
customer_details
Columns
Indexes
Foreign Keys
Triggers
product
sales
Views
Stored Procedures
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Definition:
customer_name varchar(50)
Object Info Session
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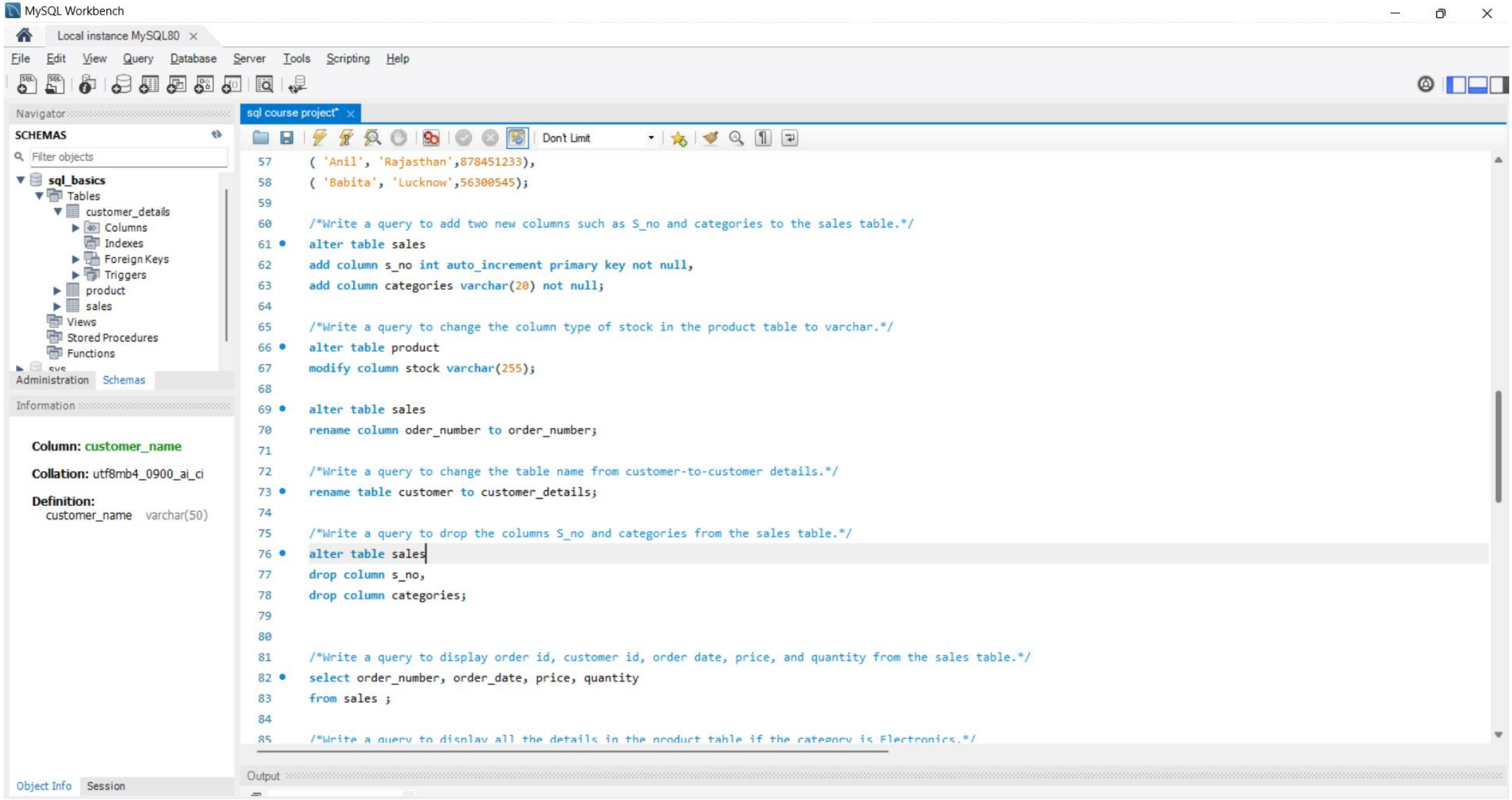
Don't Limit
29
30 /*Write a query to insert values into the tables.*/
31 insert into product (product_code,product_name,price,stock,category)
32 values
33 ('P001','Laptop',50000.00,50,'Electronics'),
34 ('P002','Trimmer',2500.00,30,'Electronics'),
35 ('P003','Charger',500.00,40,'Electronics'),
36 ('P004','Bottle',500.00,500,'Kitchenware'),
37 ('P005','Cup',250.00,100,'Kitchenware'),
38 ('P006','Container',990.00,50,'Kitchenware'),
39 ('P008','Table',2000.00,15,'Living Room');
40
41 insert into sales (Order_Date,oder_number,product_code,product_name,quantity,price)
42 values
43 ('2005-03-18', 456258 ,'P001','Laptop',5,50000.00),
44 ('2005-03-17', 456258 ,'P002','Trimmer',2,2500.00),
45 ('2005-03-15', 456258 ,'P004','Bottle',5,500.00),
46 ('2005-03-12', 456258 ,'P003','Charger',12,500.00),
47 ('2005-03-15', 456258 ,'P003','Charger',5,500.00),
48 ('2005-03-13', 456258 ,'P006','Container',10,990.00),
49 ('2005-03-16', 456258 ,'P007','Table',10,2000.00);
50
51 insert into customer (customer_name,location,phone_number)
52 values
53 ('Pratibha', 'Delhi',54844351),
54 ('Nupur', 'Noida',65455132),
55 ('Abhi', 'Delhi',652105451),
56 ('Geetika', 'Mumbai',979562322),
57 ('Anil', 'Rajasthan',878451233),
Output


MySQL Workbench
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Navigator
SCHEMAS
Filter objects
sql_basics
Tables
customer_details
Columns
Indexes
Foreign Keys
Triggers
product
sales
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alter table sales
add column s_no int auto_increment primary key not null,
add column categories varchar(20) not null;
/*Write a query to change the column type of stock in the product table to varchar.*/
alter table product
modify column stock varchar(255);
alter table sales
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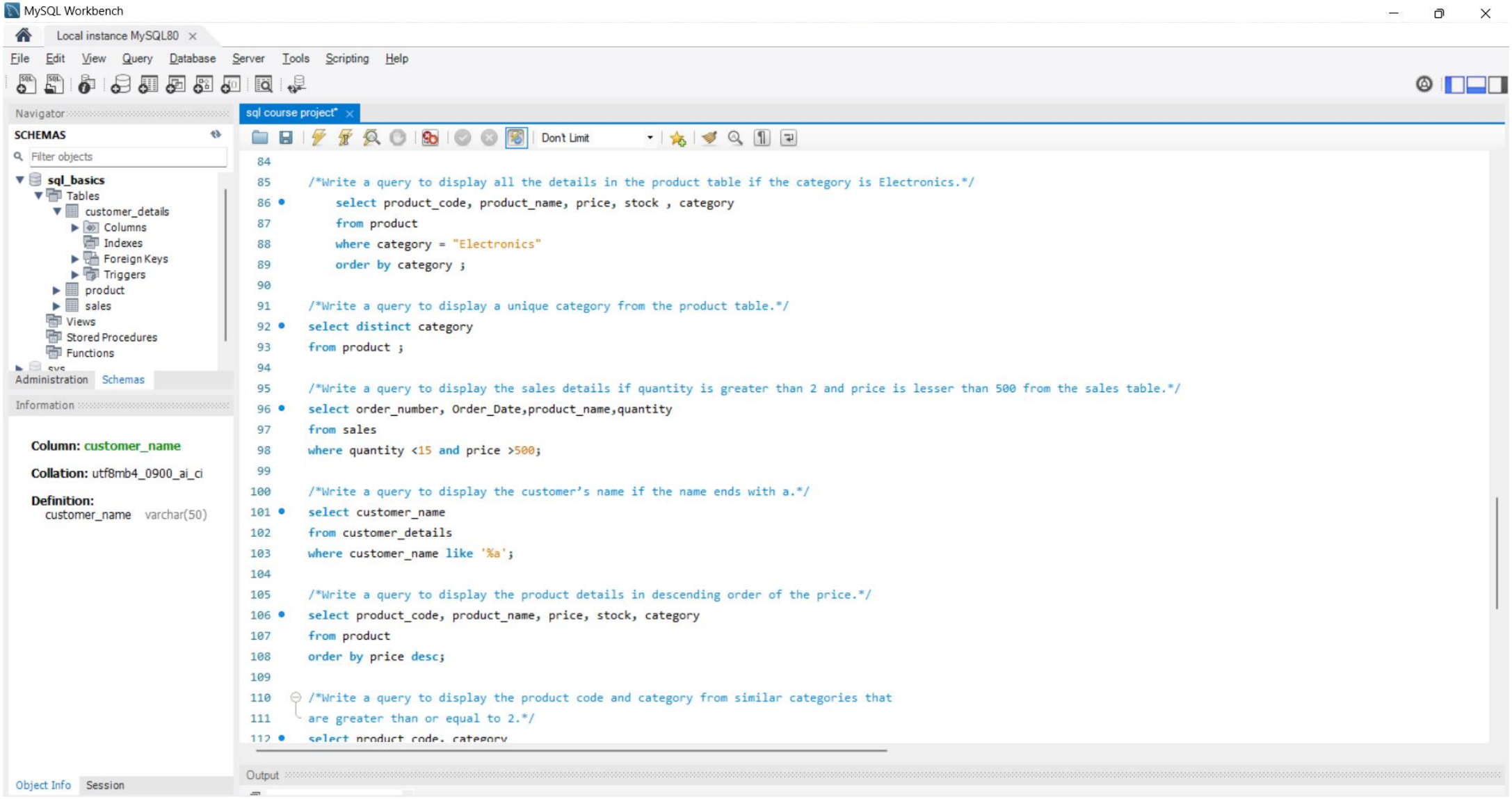
/*Write a query to change the table name from customer-to-customer details.*/
rename table customer to customer_details;
/*Write a query to drop the columns S_no and categories from the sales table.*/
alter table sales
drop column s_no,
drop column categories;
/*Write a query to display order id, customer id, order date, price, and quantity from the sales table.*/
select order_number, order_date, price, quantity
from sales ;
Output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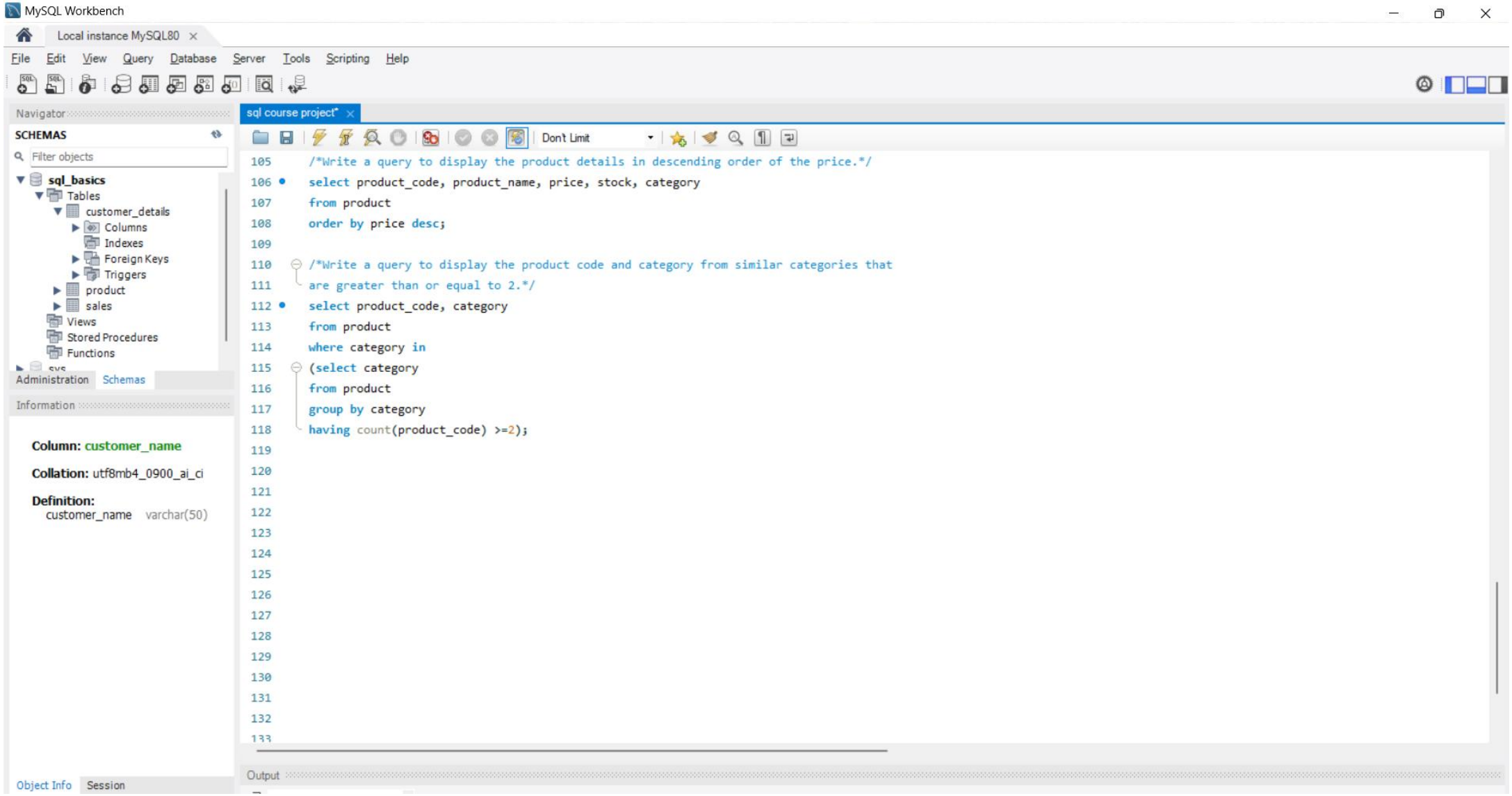
Don't Limit
84
85 /*Write a query to display all the details in the product table if the category is Electronics.*/
86 select product_code, product_name, price, stock , category
87 from product
88 where category = "Electronics"
89 order by category ;
90
91 /*Write a query to display a unique category from the product table.*/
92 select distinct category
93 from product ;
94
95 /*Write a query to display the sales details if quantity is greater than 2 and price is lesser than 500 from the sales table.*/
96 select order_number, Order_Date,product_name,quantity
97 from sales
98 where quantity <15 and price >500;
99
100 /*Write a query to display the customer's name if the name ends with a.*/
101 select customer_name
102 from customer_details
103 where customer_name like '%a';
104
105 /*Write a query to display the product details in descending order of the price.*/
106 select product_code, product_name, price, stock, category
107 from product
108 order by price desc;
109
110 /*Write a query to display the product code and category from similar categories that
111 are greater than or equal to 2.*/
112 select product_code, category
Output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SCHEMAS
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Tables
customer_details
Columns
Indexes
Foreign Keys
Triggers
product
sales
Views
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Definition:
customer_name varchar(50)
Object Info Session
sql course project*
Don't Limit
105 /*Write a query to display the product details in descending order of the price.*/
106 select product_code, product_name, price, stock, category
107 from product
108 order by price desc;
109
110 /*Write a query to display the product code and category from similar categories that
111 are greater than or equal to 2.*/
112 select product_code, category
113 from product
114 where category in
115 (select category
116 from product
117 group by category
118 having count(product_code) >=2);
119
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133
Output