

SQL Project

Swiggy Data analysis



image courtesy g

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OBJECTIVE

The primary objective of this Swiggy data analysis project is to gain insights into the restaurant offerings and pricing trends across various cities. By analyzing the data on restaurant names, cities, veg/non-veg options, prices, items, and menu categories, we aim to identify patterns and trends that can inform business strategies and improve customer satisfaction. This analysis will help in understanding the distribution of veg and non-veg options, price variations, and popular menu categories, providing a comprehensive overview of the food delivery market.



DATABASE SCHEMA

Columns

- restaurant_name
- City
- address
- rating
- cost_per_person
- cuisine
- restaurant_link
- menu_category
- item
- price
- veg_or_nonveg

Table Name
swiggy





Division OF QUESTIONS

EASY

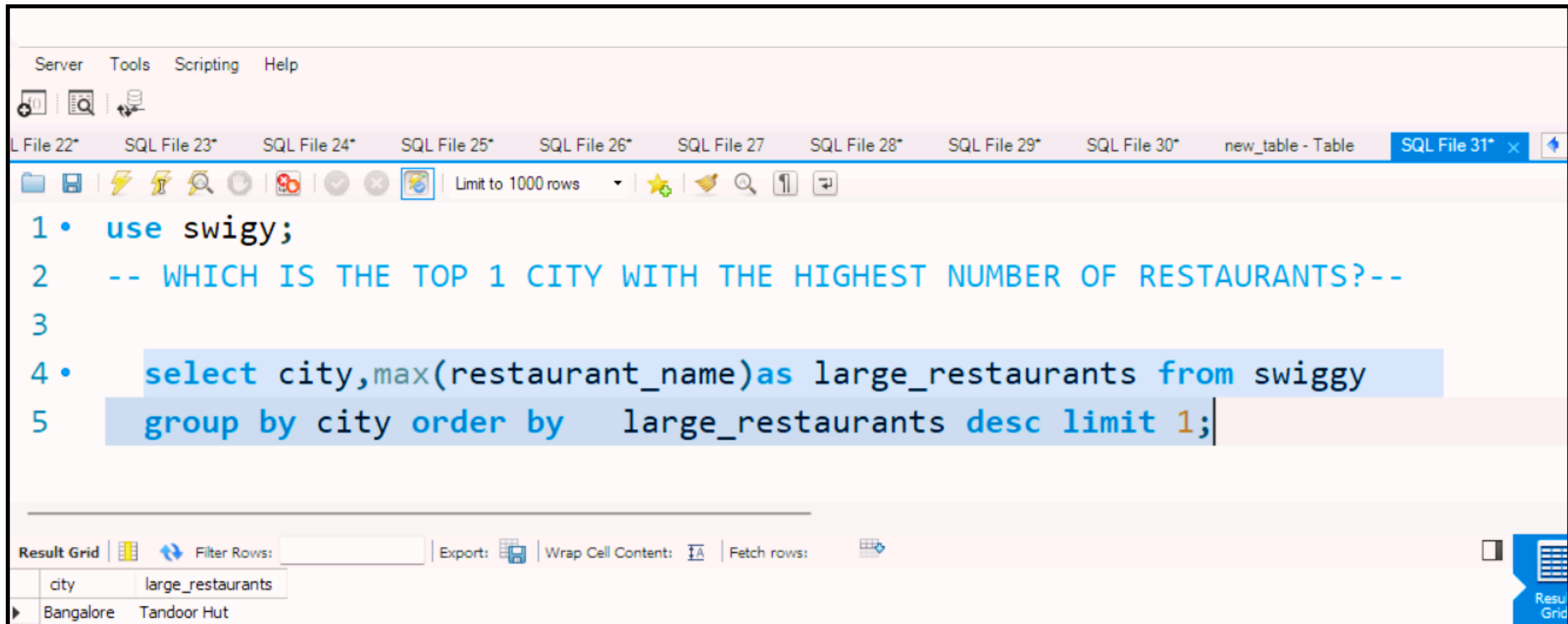
MODERATE

ADVANCE

EASY

QUESTION 1

WHICH IS THE TOP 1 CITY WITH THE HIGHEST NUMBER OF RESTAURANTS?



The screenshot shows a SQL IDE interface with a menu bar (Server, Tools, Scripting, Help) and a toolbar. The toolbar includes icons for file operations, a 'Limit to 1000 rows' dropdown, and a 'Result Grid' button. The main editor area contains the following SQL code:

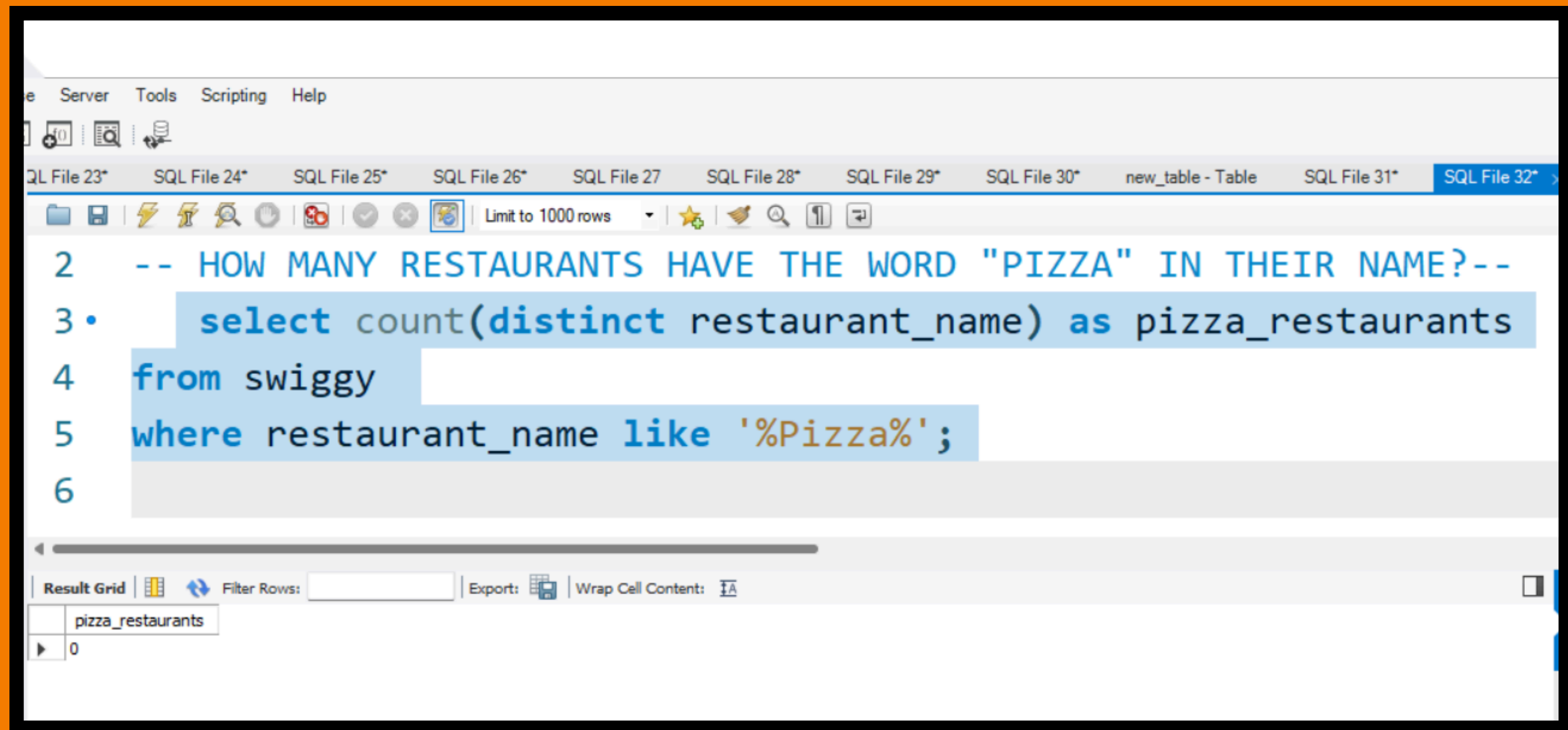
```
1 • use swiggy;  
2 -- WHICH IS THE TOP 1 CITY WITH THE HIGHEST NUMBER OF RESTAURANTS?--  
3  
4 • select city,max(restaurant_name)as large_restaurants from swiggy  
5 group by city order by large_restaurants desc limit 1;
```

Below the editor, the 'Result Grid' is visible, showing the following data:

city	large_restaurants
Bangalore	Tandoor Hut

QUESTION 2

HOW MANY RESTAURANTS HAVE THE WORD "PIZZA" IN THEIR NAME?



The screenshot shows a SQL IDE interface with a menu bar (File, Server, Tools, Scripting, Help) and a toolbar. The main editor displays a SQL query with line numbers 2 through 6. The query is:
2 -- HOW MANY RESTAURANTS HAVE THE WORD "PIZZA" IN THEIR NAME?--
3 • select count(distinct restaurant_name) as pizza_restaurants
4 from swiggy
5 where restaurant_name like '%Pizza%';
6
Below the editor, there is a 'Result Grid' section with a table containing one row:

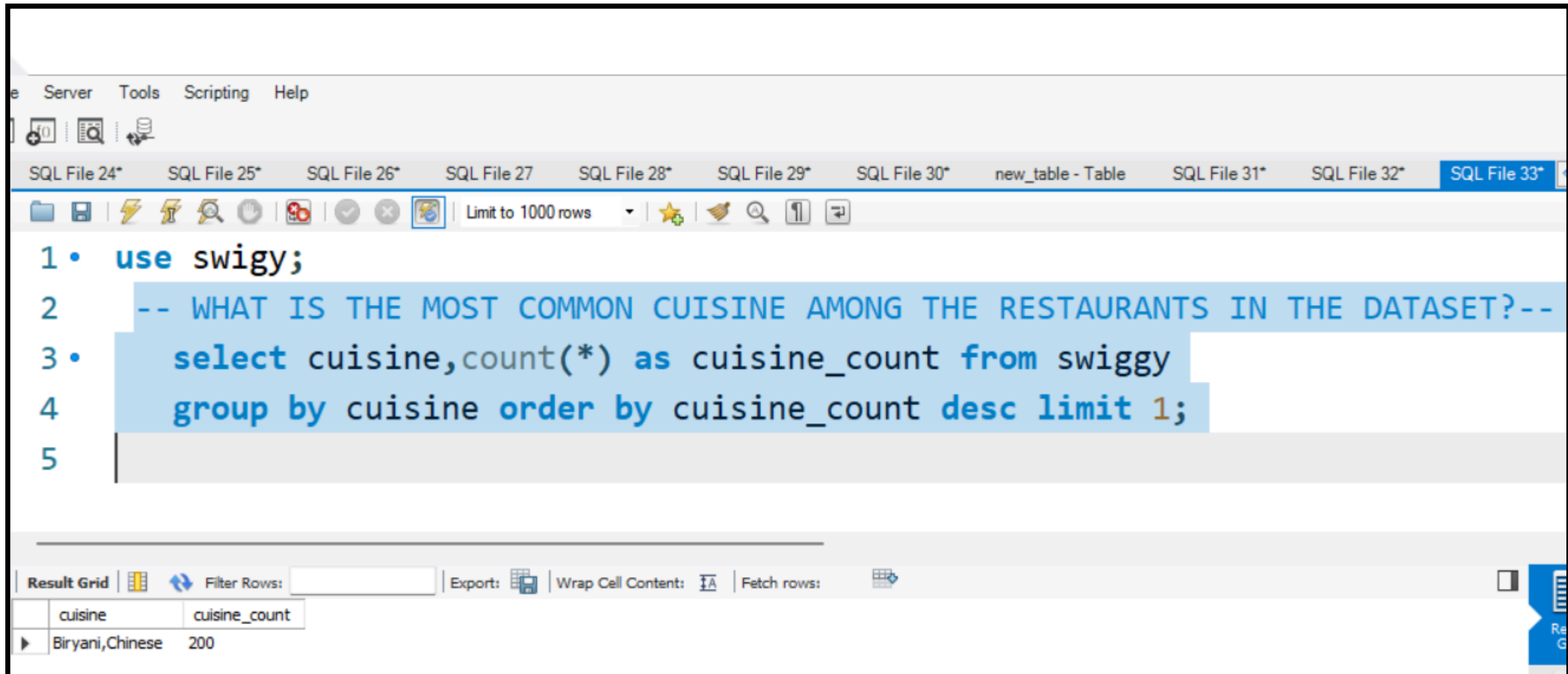
column	value
pizza_restaurants	0

```
2 -- HOW MANY RESTAURANTS HAVE THE WORD "PIZZA" IN THEIR NAME?--  
3 • select count(distinct restaurant_name) as pizza_restaurants  
4 from swiggy  
5 where restaurant_name like '%Pizza%';  
6
```

column	value
pizza_restaurants	0

QUESTION 3

WHAT IS THE MOST COMMON CUISINE AMONG THE RESTAURANTS IN THE DATASET?



The screenshot shows a SQL IDE interface with a menu bar (File, Server, Tools, Scripting, Help) and a toolbar. The main window displays a SQL script in a text editor. The script is as follows:

```
1 • use swiggy;
2   -- WHAT IS THE MOST COMMON CUISINE AMONG THE RESTAURANTS IN THE DATASET?--
3 • select cuisine,count(*) as cuisine_count from swiggy
4   group by cuisine order by cuisine_count desc limit 1;
5
```

Below the script editor, there is a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Export' button, a 'Wrap Cell Content' checkbox, and a 'Fetch rows' input field. The result grid shows the following data:

cuisine	cuisine_count
Biryani,Chinese	200

MODRATE

QUESTION 1

WHAT IS THE AVERAGE RATING OF RESTAURANTS IN EACH CITY?



02 03

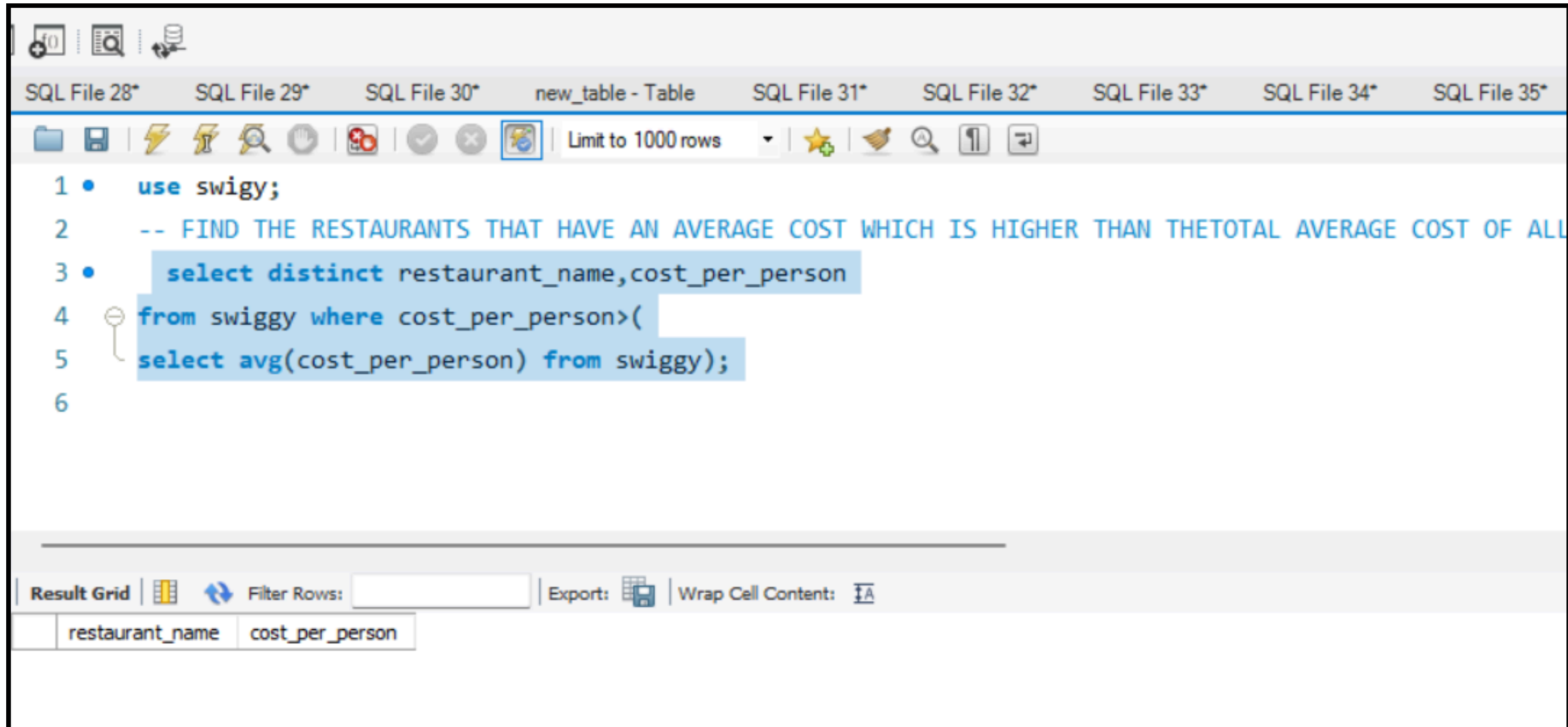
```
-- WHAT IS THE AVERAGE RATING OF RESTAURANTS IN EACH CITY?--
• select *from swiggy;
• select city,avg(rating) from swiggy group by city ;
```

Result Grid

city	avg(rating)
Bangalore	4.33671

QUESTION 2

Find the restaurants that have an average cost higher than the total average cost of all restaurants together.



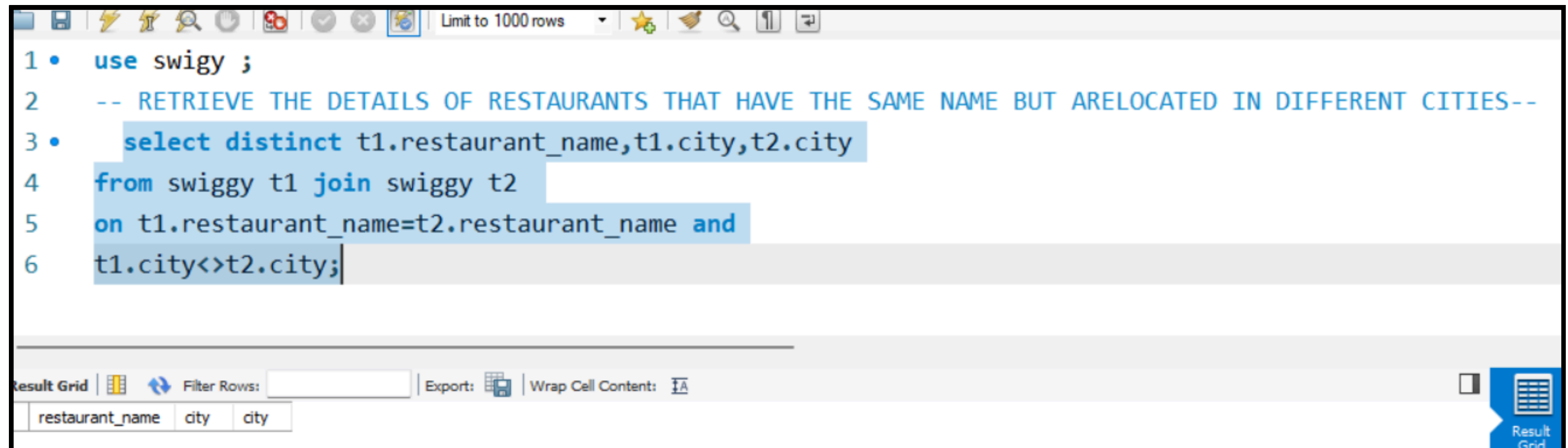
The screenshot shows a SQL IDE interface with multiple tabs at the top: "SQL File 28*", "SQL File 29*", "SQL File 30*", "new_table - Table", "SQL File 31*", "SQL File 32*", "SQL File 33*", "SQL File 34*", and "SQL File 35*". The active tab is "new_table - Table". Below the tabs is a toolbar with various icons, including a folder, save, lightning bolt, magnifying glass, hand, and a dropdown menu set to "Limit to 1000 rows". The main area contains a SQL query with line numbers 1 through 6 on the left. The query is as follows:

```
1 • use swiggy;
2   -- FIND THE RESTAURANTS THAT HAVE AN AVERAGE COST WHICH IS HIGHER THAN THE TOTAL AVERAGE COST OF ALL
3 •   select distinct restaurant_name, cost_per_person
4   from swiggy where cost_per_person > (
5     select avg(cost_per_person) from swiggy);
6
```

At the bottom of the IDE, there is a "Result Grid" section. It includes a "Filter Rows:" input field, an "Export:" button with a grid icon, and a "Wrap Cell Content:" checkbox. Below this, a table header is visible with two columns: "restaurant_name" and "cost_per_person".

QUESTION 3

Retrieve the details of restaurants that have the same name but are located in different cities



```
1 • use swigy ;
2   -- RETRIEVE THE DETAILS OF RESTAURANTS THAT HAVE THE SAME NAME BUT ARE LOCATED IN DIFFERENT CITIES--
3 • select distinct t1.restaurant_name,t1.city,t2.city
4   from swigy t1 join swigy t2
5   on t1.restaurant_name=t2.restaurant_name and
6   t1.city<>t2.city;
```

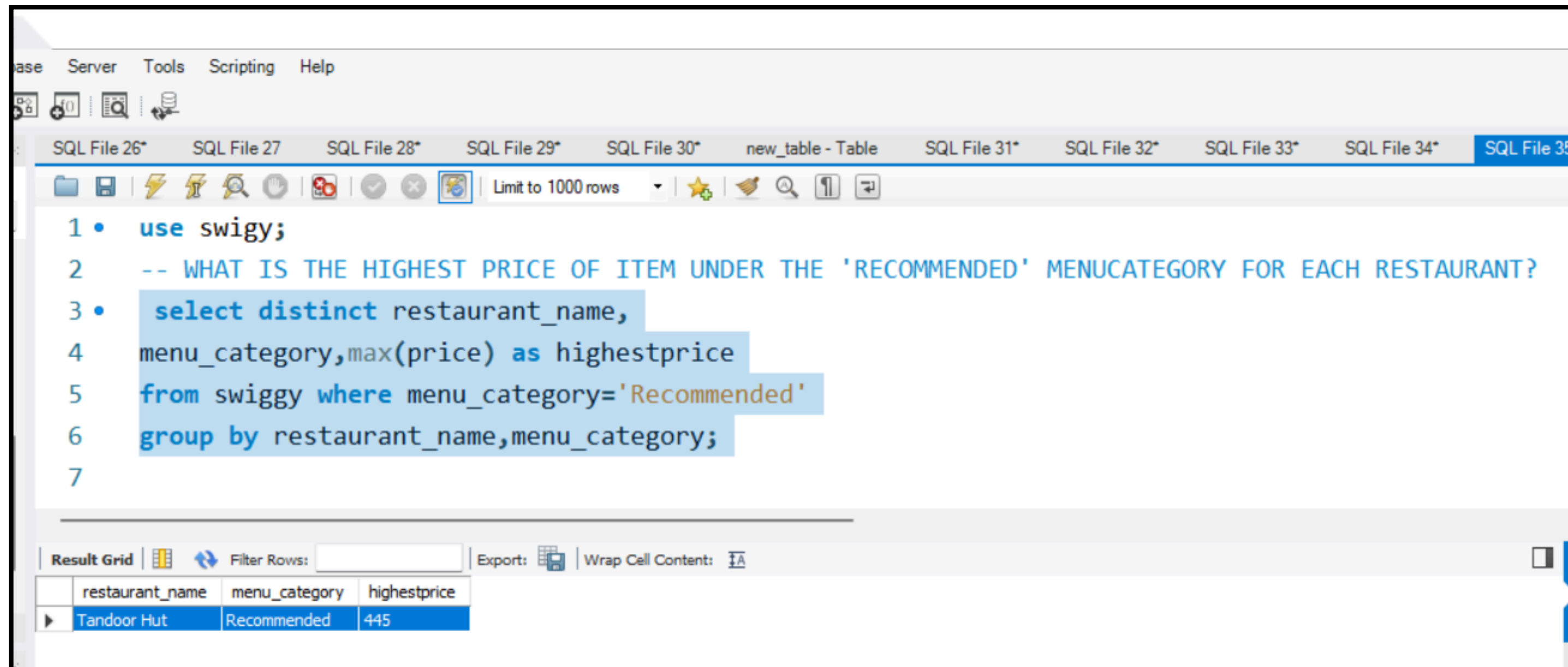
The screenshot shows a SQL query editor with a toolbar at the top containing icons for file operations, execution, and search. The query is written in a monospaced font. Below the query editor, there is a 'Result Grid' section with a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. A small table preview is visible below the 'Result Grid' header, showing columns 'restaurant_name', 'city', and 'city'.

restaurant_name	city	city
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ADVANCE

QUESTION 1

What is the highest price of an item under the 'recommended' menu category for each restaurant?



The screenshot shows a SQL IDE interface with a menu bar (Base, Server, Tools, Scripting, Help) and a toolbar. The main editor displays a SQL query with line numbers 1 through 7. The query is as follows:

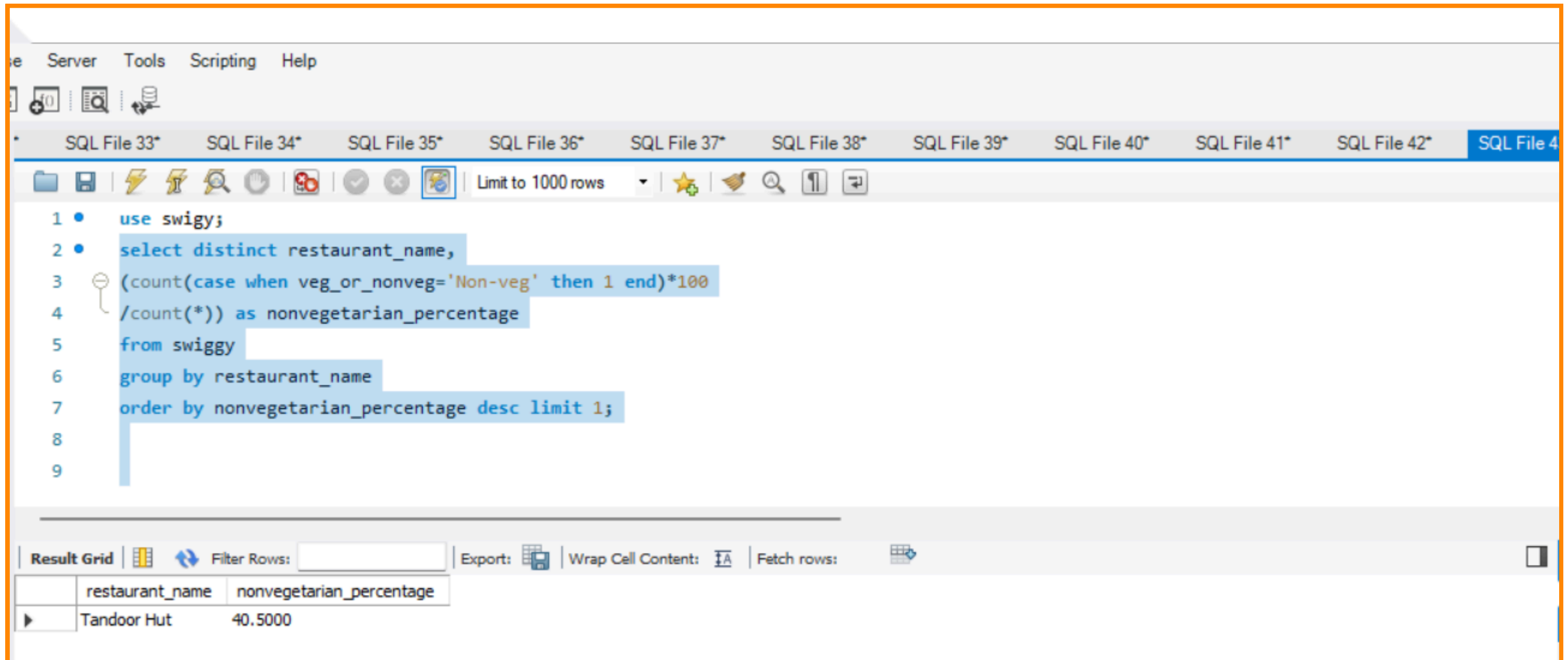
```
1 • use swigy;
2   -- WHAT IS THE HIGHEST PRICE OF ITEM UNDER THE 'RECOMMENDED' MENUCATEGORY FOR EACH RESTAURANT?
3 • select distinct restaurant_name,
4   menu_category,max(price) as highestprice
5   from swigy where menu_category='Recommended'
6   group by restaurant_name,menu_category;
7
```

Below the editor, the 'Result Grid' is visible, showing a table with the following data:

restaurant_name	menu_category	highestprice
Tandoor Hut	Recommended	445

QUESTION 2

Which restaurant provides the highest percentage of non-vegetarian food?



The screenshot shows a SQL IDE interface with a query editor and a result grid. The query is as follows:

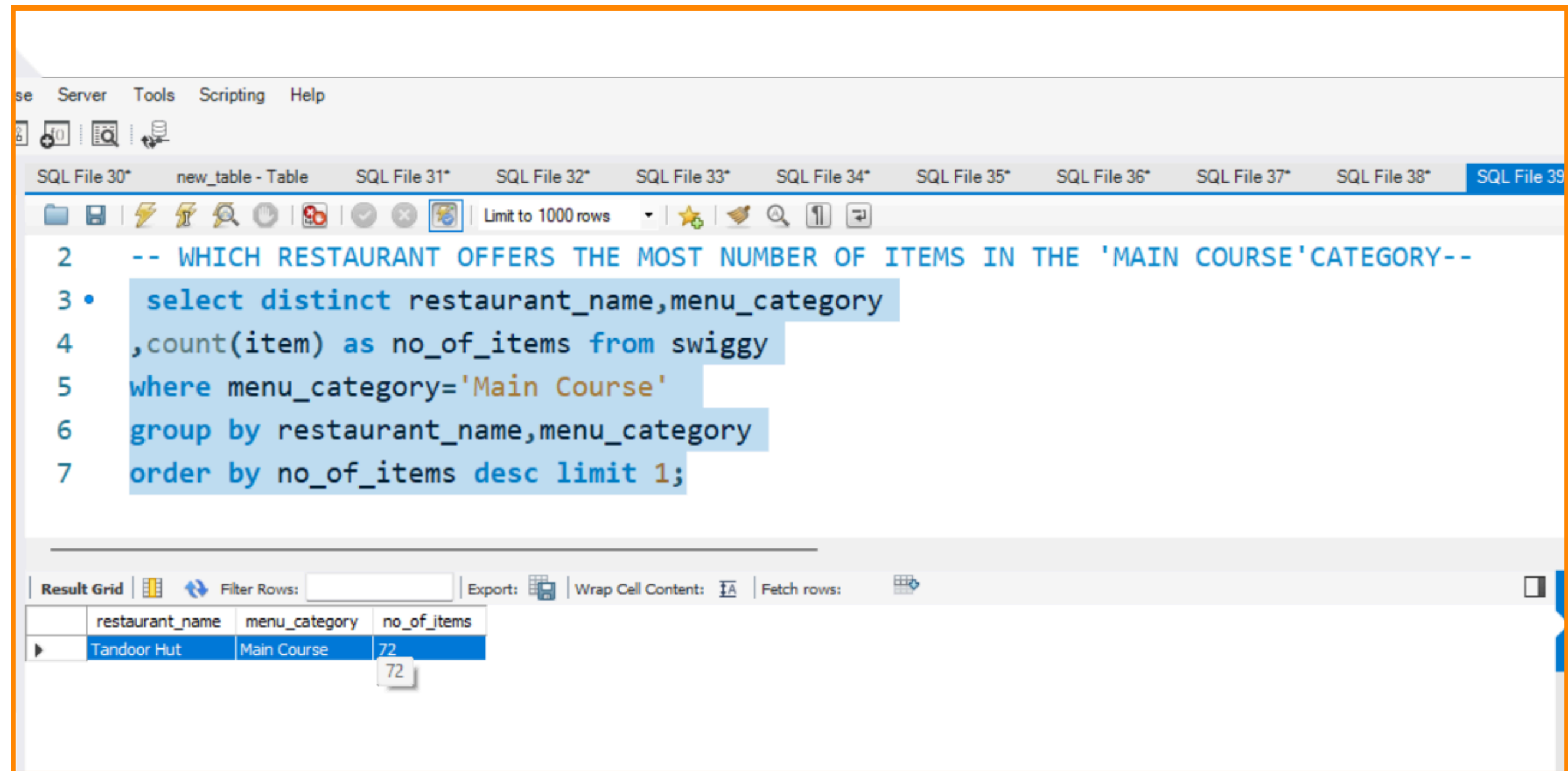
```
1 • use swigy;
2 • select distinct restaurant_name,
3   (count(case when veg_or_nonveg='Non-veg' then 1 end)*100
4   /count(*)) as nonvegetarian_percentage
5   from swiggy
6   group by restaurant_name
7   order by nonvegetarian_percentage desc limit 1;
```

The result grid shows the following data:

restaurant_name	nonvegetarian_percentage
Tandoor Hut	40.5000

QUESTION 3

WHICH RESTAURANT OFFERS THE MOST NUMBER OF ITEMS IN THE 'MAIN COURSE' CATEGORY?



The screenshot shows a SQL IDE interface with a menu bar (File, Server, Tools, Scripting, Help) and a toolbar. The main editor displays a SQL query with line numbers 2 through 7. The query is as follows:

```
2  -- WHICH RESTAURANT OFFERS THE MOST NUMBER OF ITEMS IN THE 'MAIN COURSE' CATEGORY--  
3  • select distinct restaurant_name,menu_category  
4    ,count(item) as no_of_items from swiggy  
5  where menu_category='Main Course'  
6  group by restaurant_name,menu_category  
7  order by no_of_items desc limit 1;
```

Below the editor, the 'Result Grid' tab is active, showing a table with the following data:

restaurant_name	menu_category	no_of_items
Tandoor Hut	Main Course	72



THANK
YOU