1. How many pubs are located in each country??

Ans:

select country, count(pub\_id) as no\_of\_pubs

from pubs

group by 1;

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1. What is the total sales amount for each pub, including the beverage price and quantity sold?

Ans:

with cte as (

select s.pub\_id,p.pub\_name, (s.quantity\*b.price\_per\_unit) as total\_sales

from pubs p

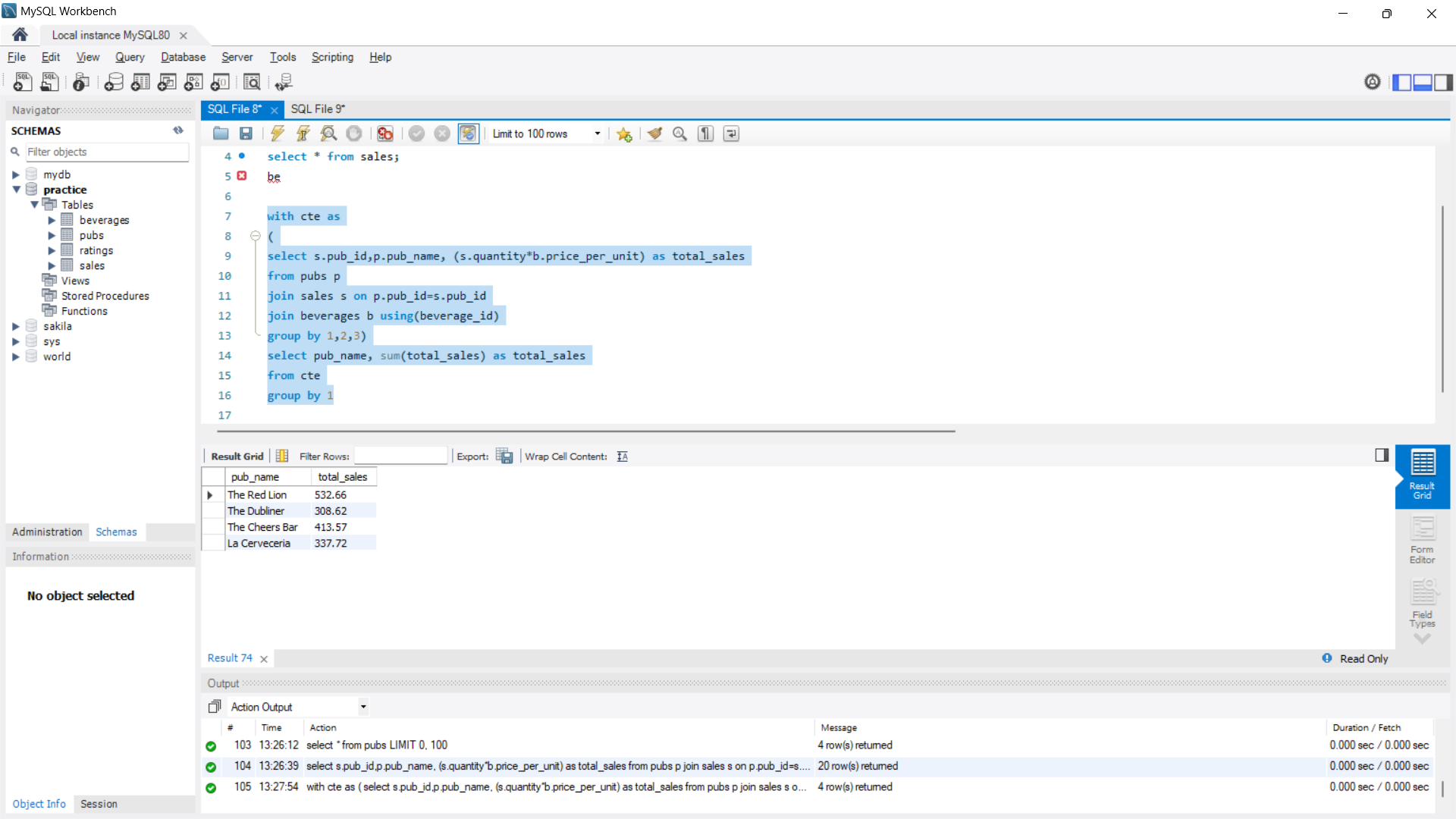
join sales s on p.pub\_id=s.pub\_id

join beverages b using(beverage\_id)

group by 1,2,3)

select pub\_name, sum(total\_sales) as total\_sales

from cte group by 1



1. Which pub has the highest average rating?

Ans:

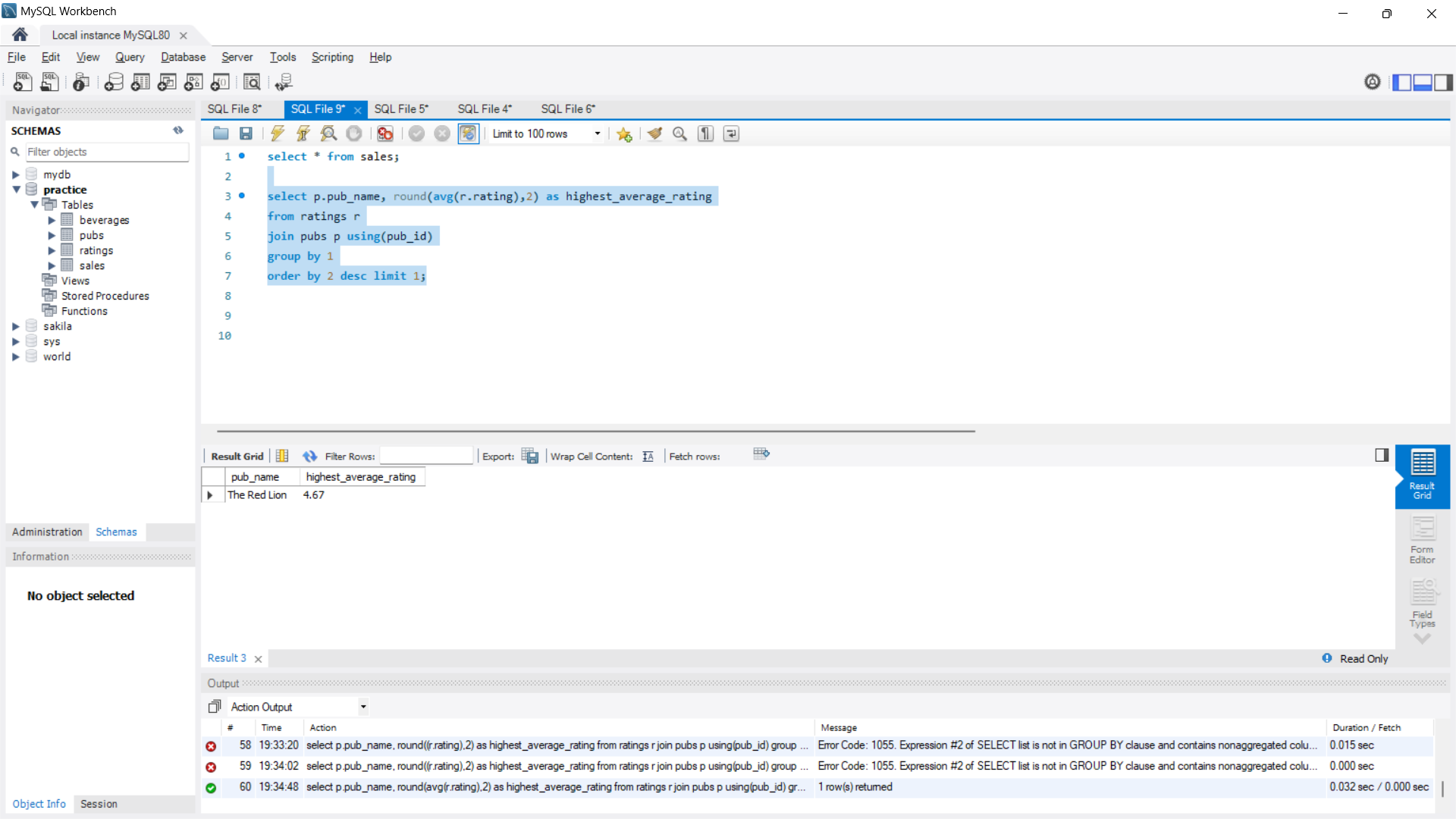
select p.pub\_name, round(avg(r.rating),2) as highest\_average\_rating

from ratings r

join pubs p using(pub\_id)

group by 1

order by 2 desc limit 1;



1. What are the top 5 beverages by sales quantity across all pubs?

Ans:

select b.beverage\_name, sum(s.quantity) as sales\_quantity

from sales s

join beverages b using(beverage\_id)

group by 1

order by 2 desc;

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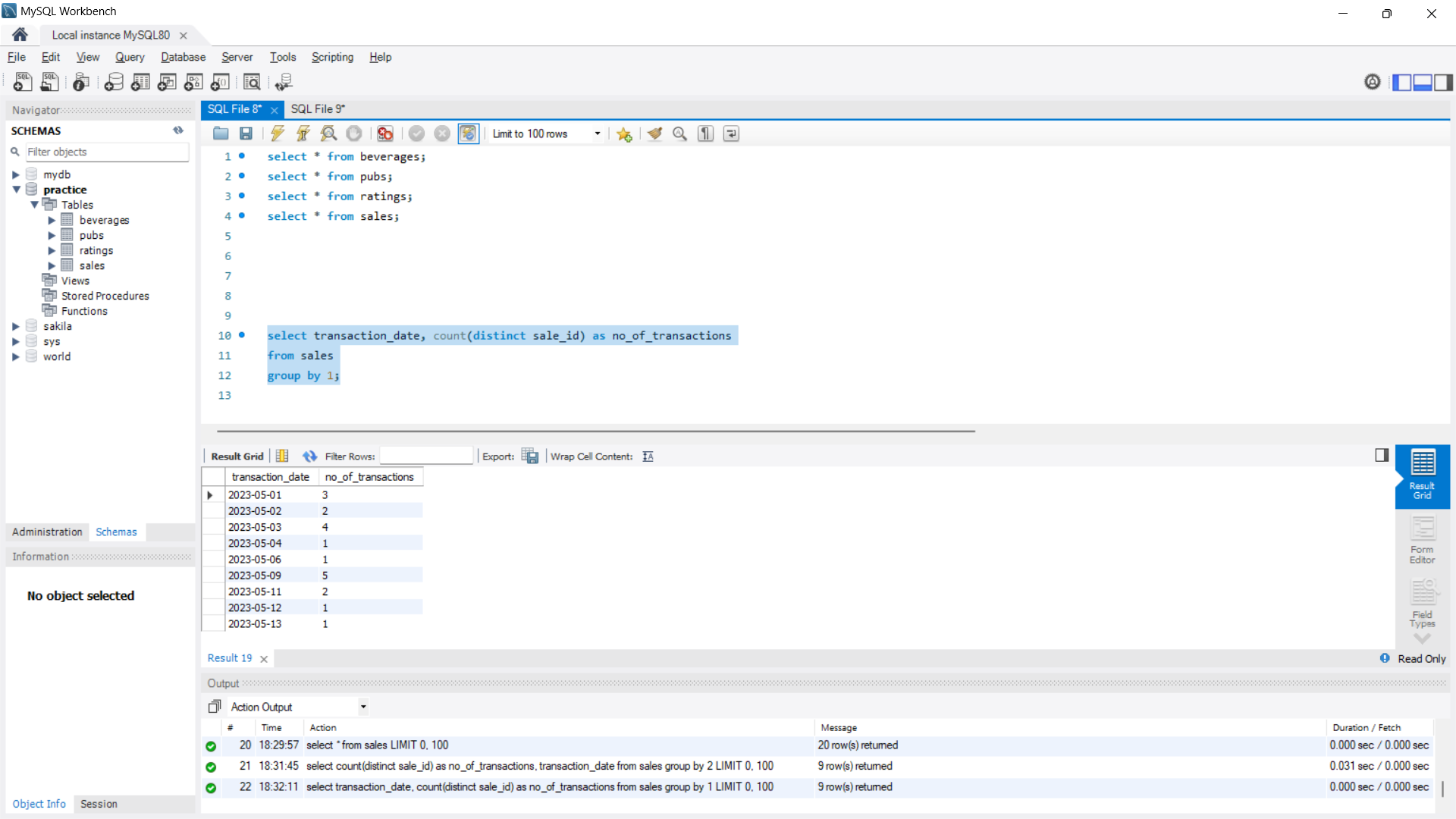
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1. How many sales transactions occurred on each date?

Ans:

select transaction\_date, count(distinct sale\_id) as no\_of\_transactions

from sales group by 1;



1. Find the name of someone that had cocktails and which pub they had it in.

Ans:

Select r.customer\_name, p.pub\_name

from ratings r

join pubs p using(pub\_id)

join sales s using(pub\_id)

join beverages b using(beverage\_id)

where b.category='cocktail'

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1. What is the average price per unit for each category of beverages, excluding the category 'Spirit'?

Ans:

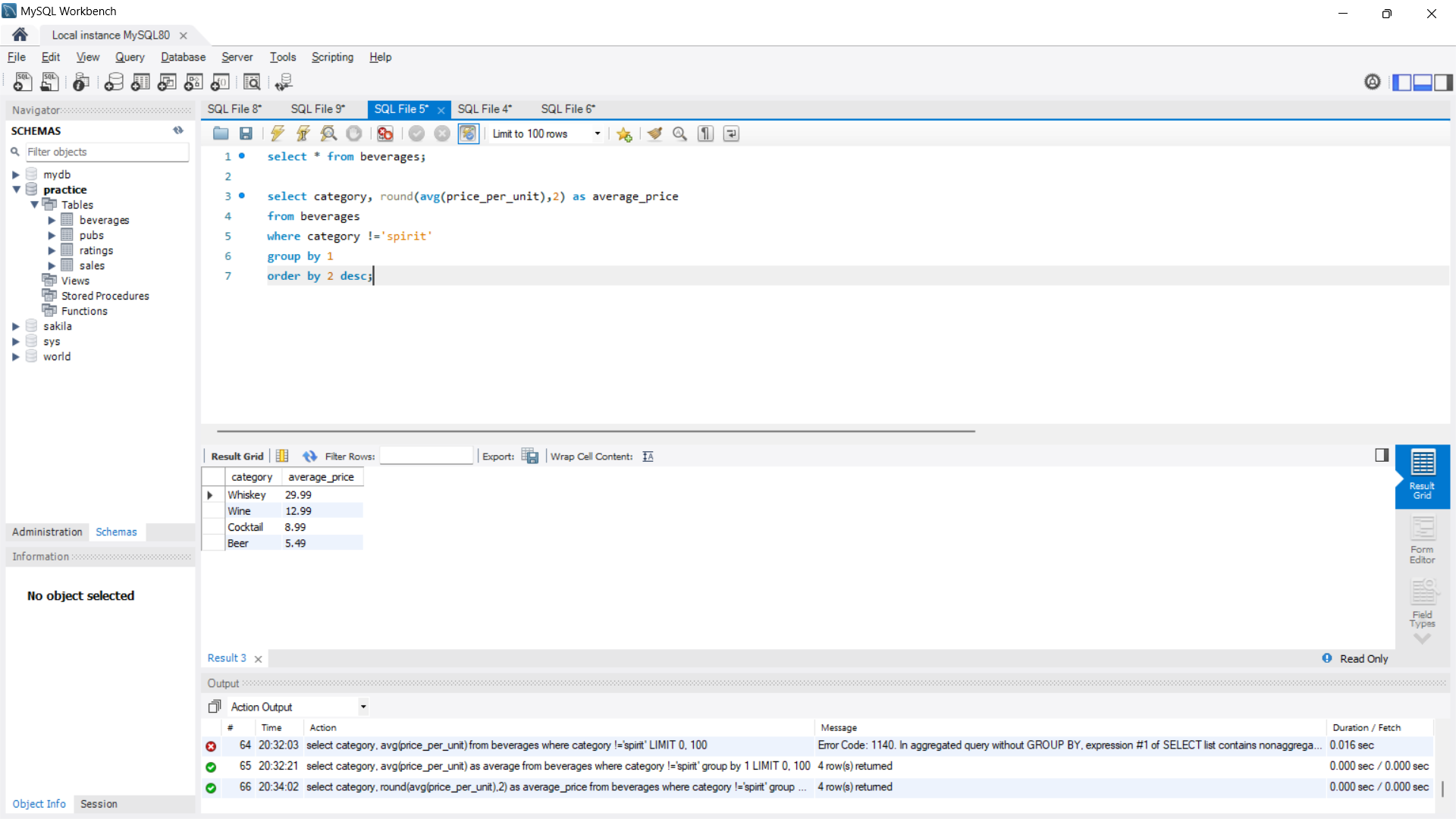
select category, round(avg(price\_per\_unit),2) as average\_price

from beverages

where category !='spirit'

group by 1

order by 2 desc;



1. Which pubs have a rating higher than the average rating of all pubs?

Ans:

select distinct(p.pub\_name), round(avg(r.rating),2) as avg\_rating

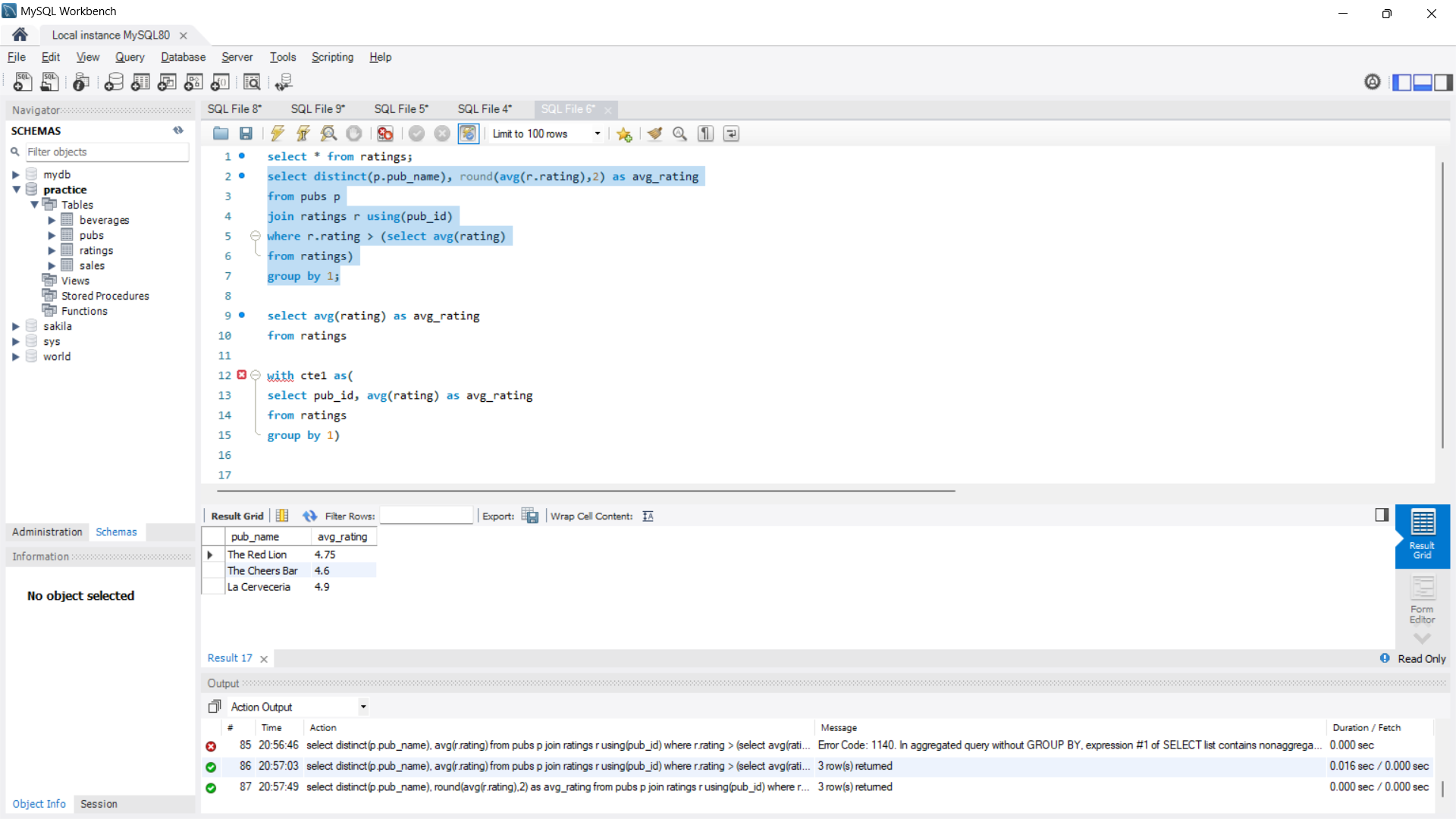
from pubs p

join ratings r using(pub\_id)

where r.rating > (select avg(rating)

from ratings)

group by 1;



1. What is the running total of sales amount for each pub, ordered by the transaction date?

Ans:

with cte1 as(

select pub\_name, transaction\_date, sum(price\_per\_unit\*quantity) as total\_sales

from pubs p

join sales s using(pub\_id)

join beverages b using(beverage\_id)

group by 1, 2

order by 1, 2

)

select pub\_name, transaction\_date, total\_sales,

sum(total\_sales) over( partition by pub\_name order by transaction\_date ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) as running\_total

from cte1

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Description automatically generated

1. For each country, what is the average price per unit of beverages in each category, and what is the overall average price per unit of beverages across all categories?

Ans:

with cte1 as

(

select country, category, round(avg(price\_per\_unit),2) as average\_price\_per\_unit\_each\_cat

from beverages b

join sales s using(beverage\_id)

join pubs p using(pub\_id)

group by 1,2

),

cte2 as

(

select country,round(avg(price\_per\_unit),2) as average\_price\_per\_unit\_all\_cat

from beverages b

join sales s using(beverage\_id)

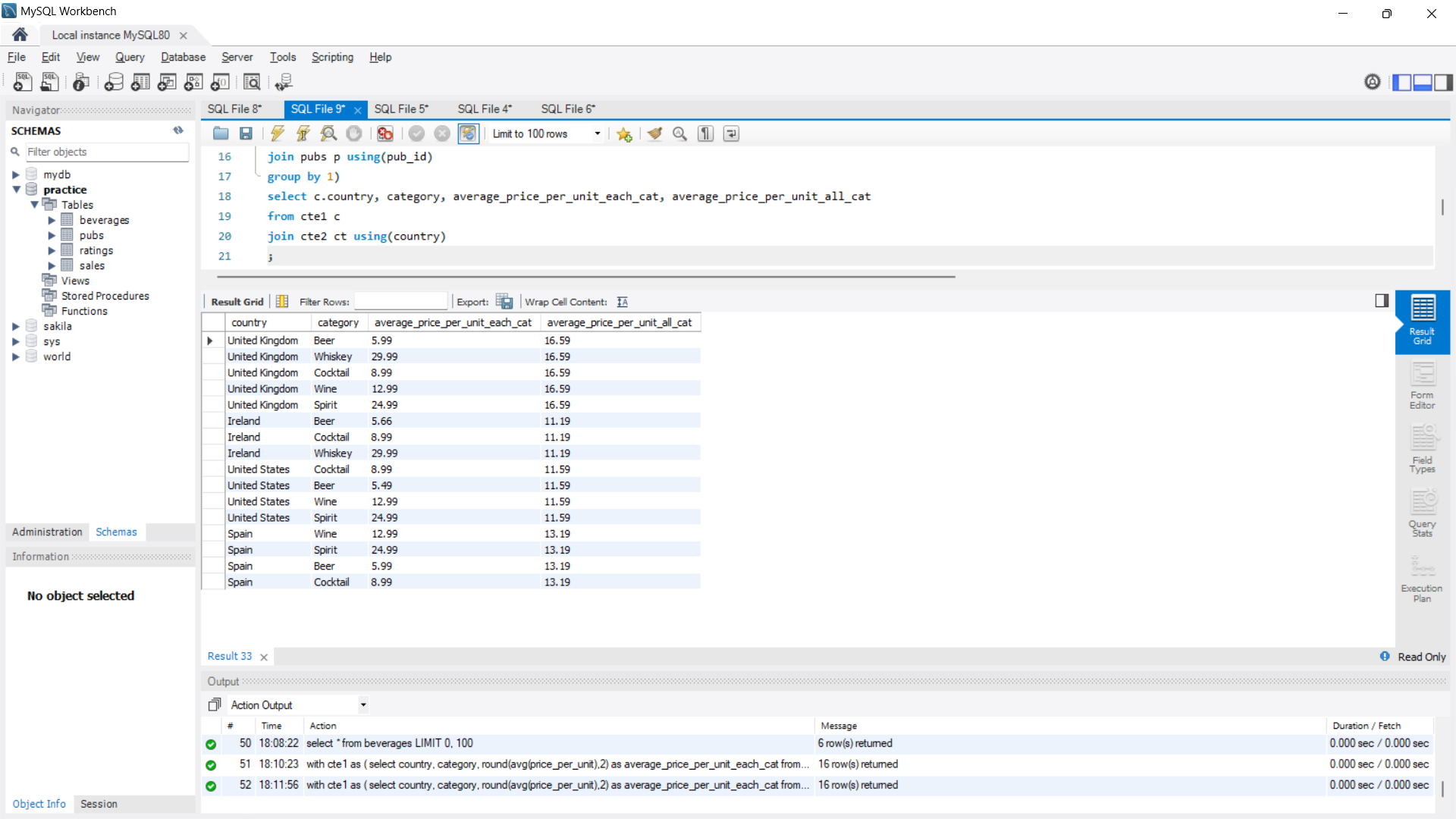
join pubs p using(pub\_id)

group by 1)

select c.country, category, average\_price\_per\_unit\_each\_cat, average\_price\_per\_unit\_all\_cat

from cte1 c

join cte2 ct using(country);



1. For each pub, what is the percentage contribution of each category of beverages to the total sales amount, and what is the pub's overall sales amount?

Ans:

with cte1 as

(

select pub\_name, category, sum(quantity\*price\_per\_unit) as sales\_category

from pubs p

join sales s using(pub\_id)

join beverages b using(beverage\_id)

group by 1,2

),

cte2 as

(

select pub\_name, sum(quantity\*price\_per\_unit) as total\_sales

from pubs p

join sales s using(pub\_id)

join beverages b using(beverage\_id)

group by 1

)

select c.pub\_name, category, sales\_category, total\_sales, concat(round((sales\_category/total\_sales)\*100,2),"%") as contribution\_in\_percentage

from cte1 c

join cte2 ct using(pub\_name);

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