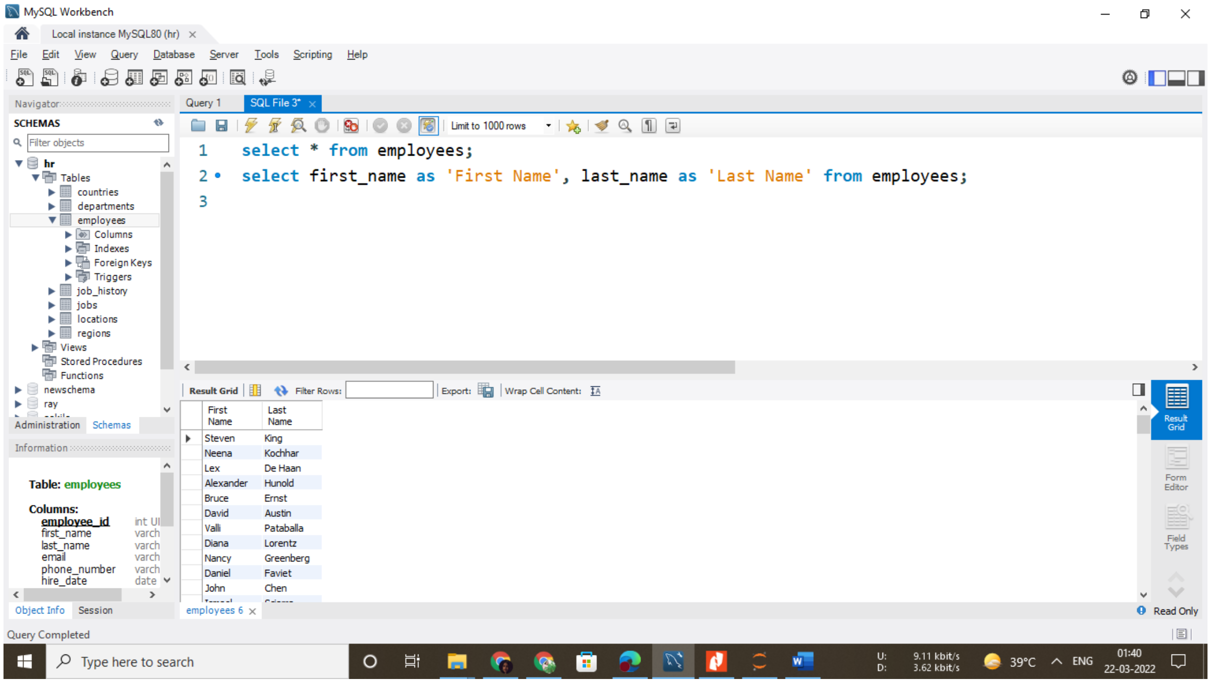
SQL ASSIGNMENT 1

1. Write a query to display the names (first_name, last_name) using alias name “First Name", "Last Name".

select first_name as 'First Name', last_name as 'Last Name' from employees;



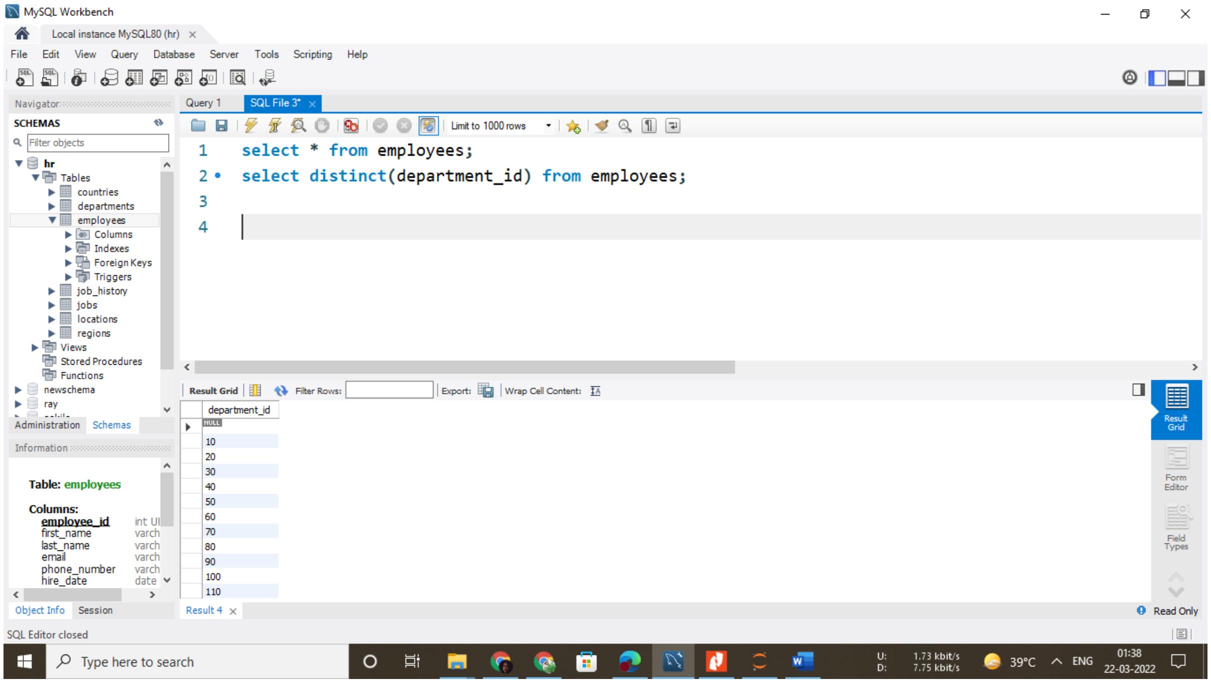
```
select * from employees;
select first_name as 'First Name', last_name as 'Last Name' from employees;
```

First Name	Last Name
Steven	King
Neena	Kochhar
Lex	De Haan
Alexander	Hunold
Bruce	Ernst
David	Austin
Valli	Pataballa
Diana	Lorentz
Nancy	Greenberg
Daniel	Faviet
John	Chen

Query Completed

2. Write a query to get unique department ID from employee table

select distinct(department_id) from employees;



```
select * from employees;
select distinct(department_id) from employees;
```

department_id
NULL
10
20
30
40
50
60
70
80
90
100
110

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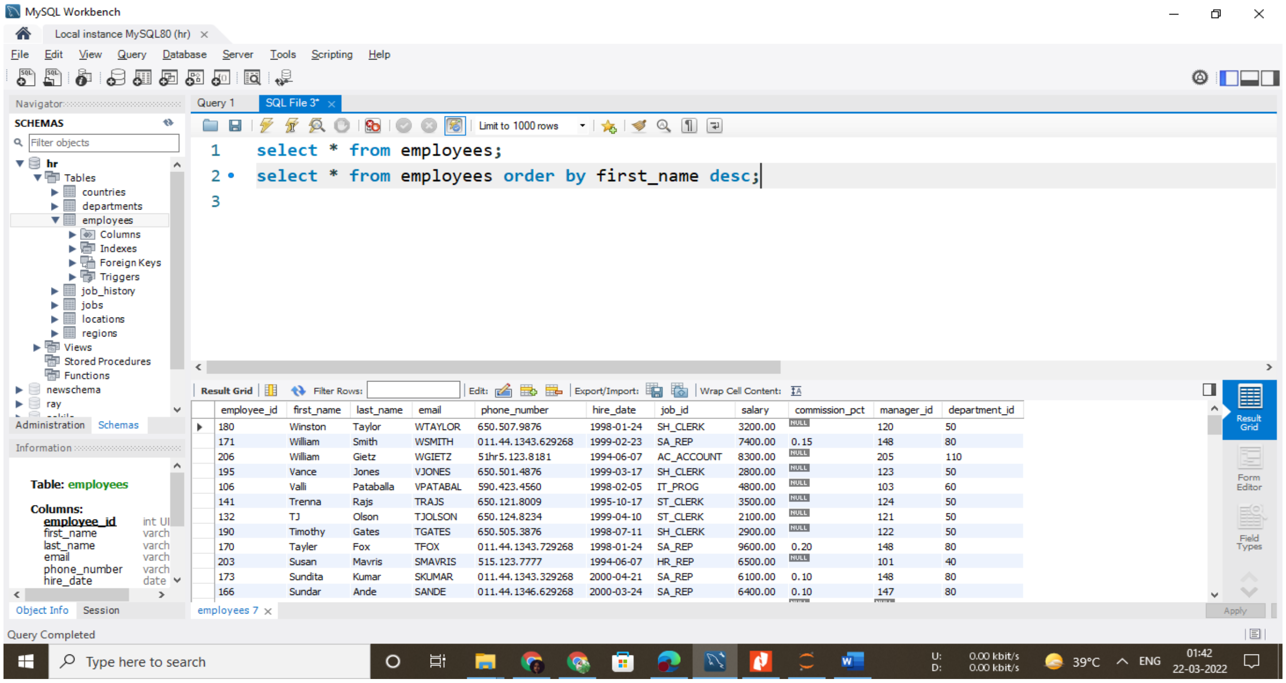
3. Write a query to get all employee details from the employee table order by first name, descending
select * from employees order by first_name desc;

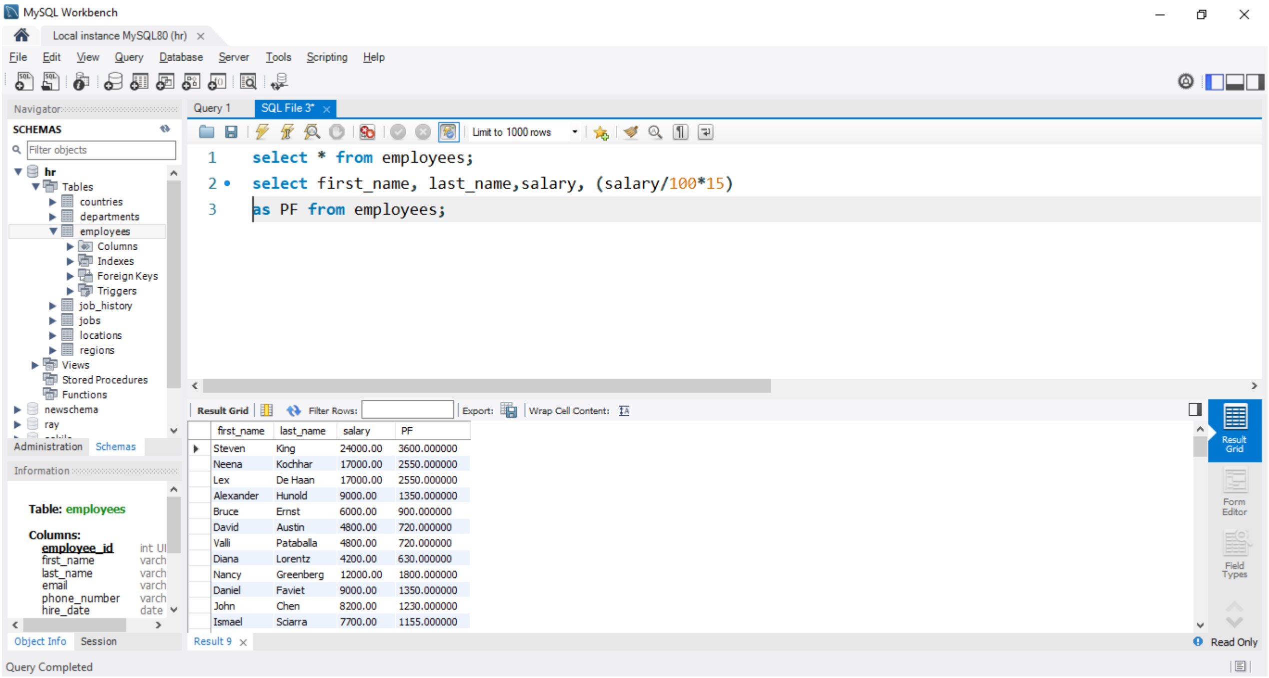


```
select * from employees;
select * from employees order by first_name desc;
```

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
180	Winston	Taylor	WTAYLOR	650.507.9876	1998-01-24	SH_CLERK	3200.00	NULL	120	50
171	William	Smith	WSMITH	011.44.1343.629268	1999-02-23	SA_REP	7400.00	0.15	148	80
206	William	Gietz	WGIETZ	51hr5.123.8181	1994-06-07	AC_ACCOUNT	8300.00	NULL	205	110
195	Vance	Jones	VJONES	650.501.4876	1999-03-17	SH_CLERK	2800.00	NULL	123	50
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NULL	103	60
141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	NULL	124	50
132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NULL	121	50
190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900.00	NULL	122	50
170	Tayler	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20	148	80
203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NULL	101	40
173	Sundita	Kumar	SKUMAR	011.44.1343.329268	2000-04-21	SA_REP	6100.00	0.10	148	80
166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.10	147	80

4. Write a query to get the names (first_name, last_name), salary, PF of all the employees (PF is calculated as 15% of salary)

select first_name, last_name,salary, (salary/100*15) as PF from employees;

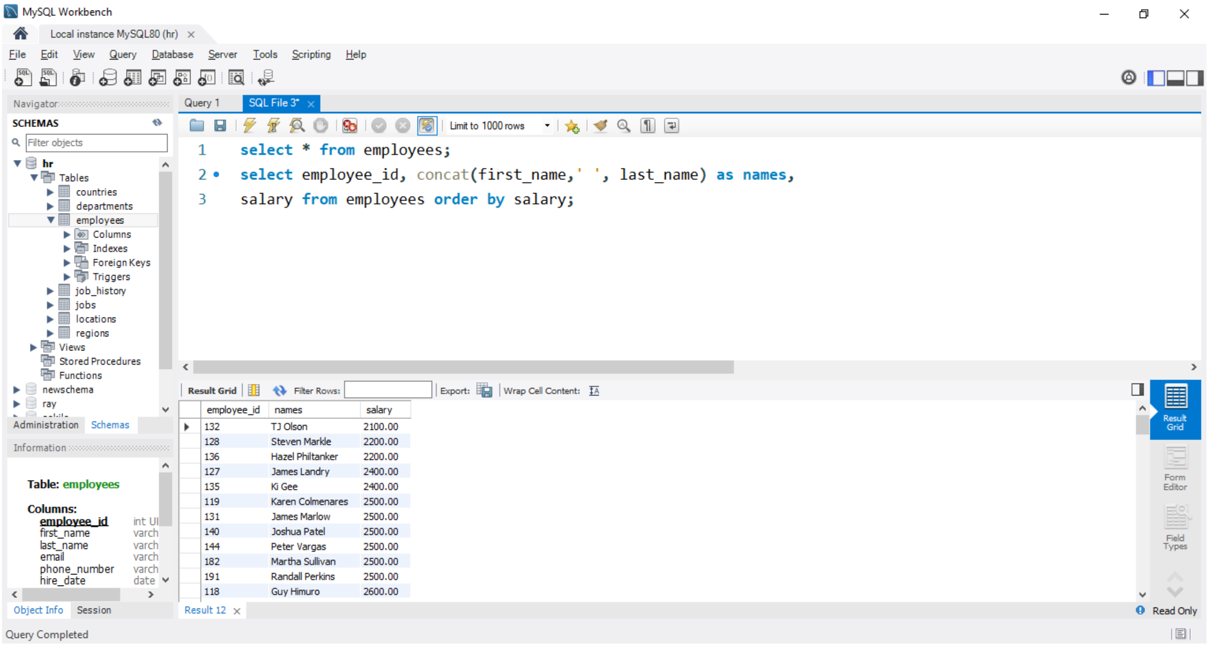


```
select * from employees;
select first_name, last_name,salary, (salary/100*15)
as PF from employees;
```

first_name	last_name	salary	PF
Steven	King	24000.00	3600.000000
Neena	Kochhar	17000.00	2550.000000
Lex	De Haan	17000.00	2550.000000
Alexander	Hunold	9000.00	1350.000000
Bruce	Ernst	6000.00	900.000000
David	Austin	4800.00	720.000000
Valli	Pataballa	4800.00	720.000000
Diana	Lorentz	4200.00	630.000000
Nancy	Greenberg	12000.00	1800.000000
Daniel	Faviet	9000.00	1350.000000
John	Chen	8200.00	1230.000000
Ismael	Sciarra	7700.00	1155.000000

5. Write a query to get the employee ID, names (first_name, last_name), salary in ascending order of salary.

select employee_id, concat(first_name,' ', last_name) as names,
salary from employees order by salary;

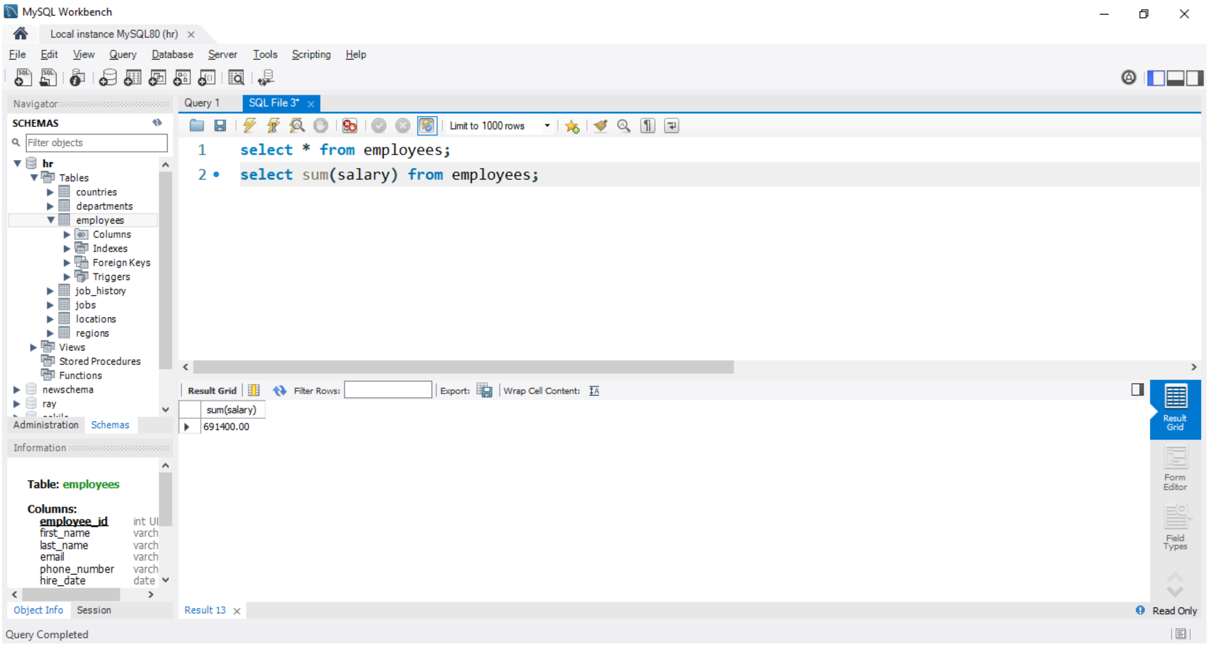


```
select * from employees;
select employee_id, concat(first_name,' ', last_name) as names,
salary from employees order by salary;
```

employee_id	names	salary
132	TJ Olson	2100.00
128	Steven Markle	2200.00
136	Hazel Philtanker	2200.00
127	James Landry	2400.00
135	Ki Gee	2400.00
119	Karen Colmenares	2500.00
131	James Marlow	2500.00
140	Joshua Patel	2500.00
144	Peter Vargas	2500.00
182	Martha Sullivan	2500.00
191	Randall Perkins	2500.00
118	Guy Himuro	2600.00

Query Completed

6. Write a query to get the total salaries payable to employees
select sum(salary) from employees;



```
select * from employees;
select sum(salary) from employees;
```

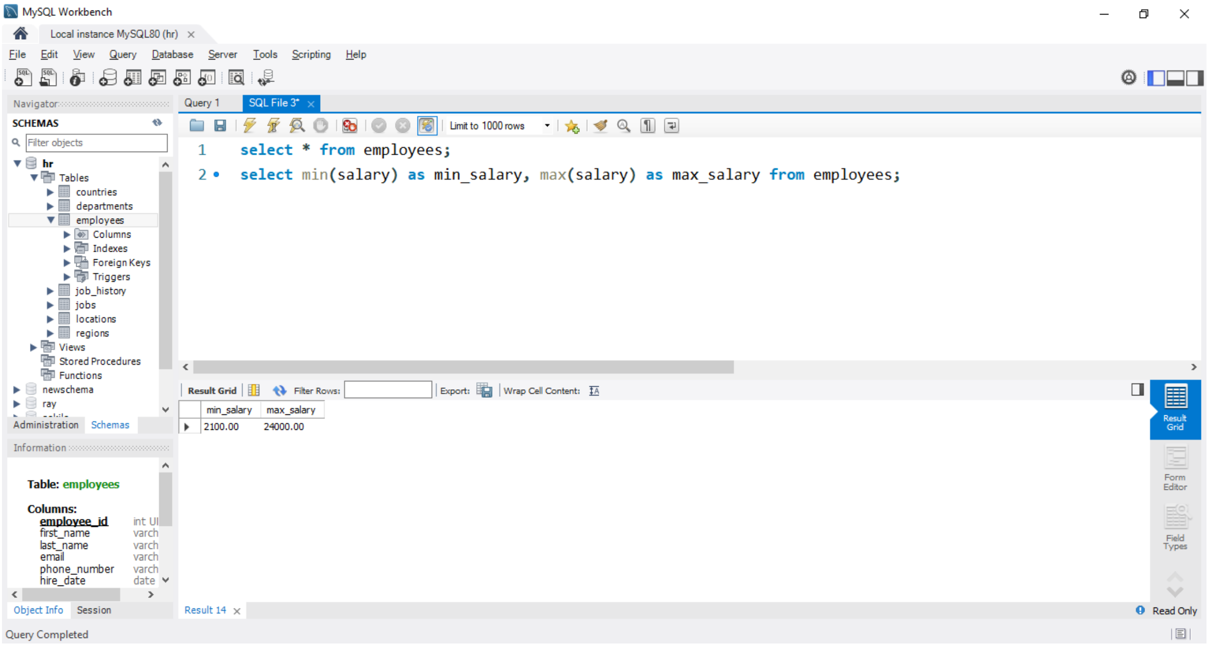
sum(salary)
691400.00

Query Completed

MySQL Workbench
Local instance MySQL80 (hr)
File Edit View Query Database Server Tools Scripting Help
Query 1
SQL File 3*
Limit to 1000 rows
Result Grid
Result 13
Read Only

7. Write a query to get the maximum and minimum salary from employees table

select min(salary) as min_salary, max(salary) as max_salary from employees;



```
select * from employees;
select min(salary) as min_salary, max(salary) as max_salary from employees;
```

min_salary	max_salary
2100.00	24000.00

Table: employees

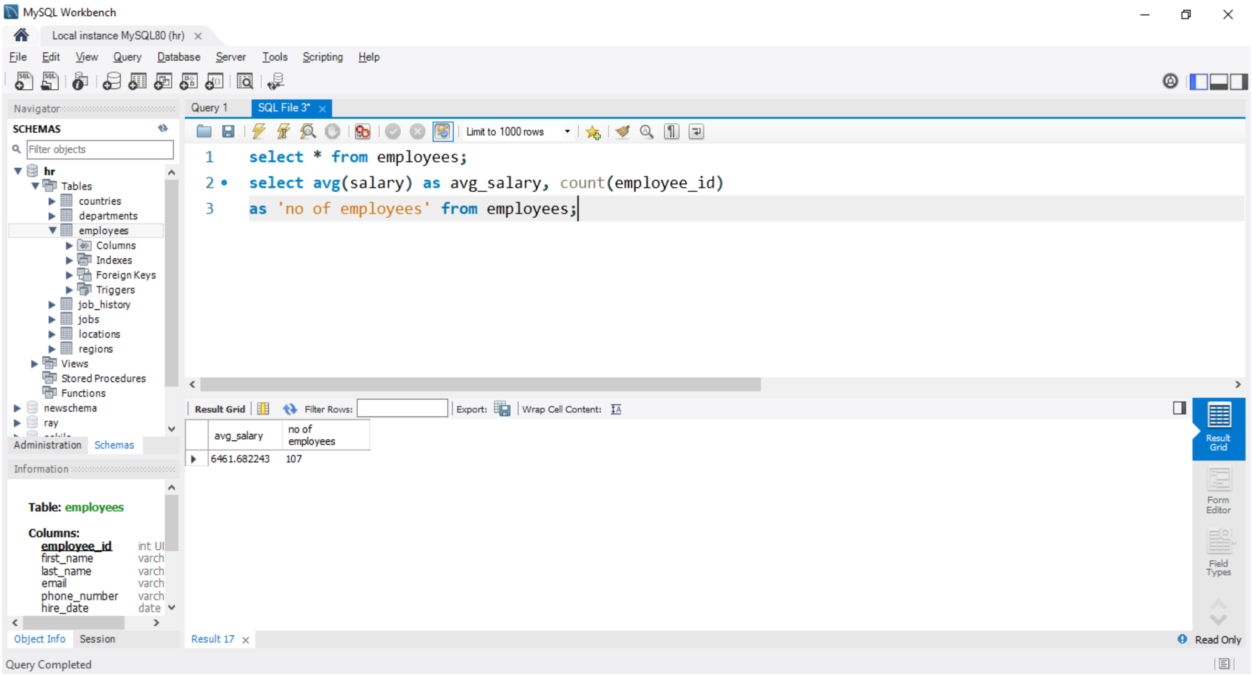
Columns:

employee_id	int UI
first_name	varch
last_name	varch
email	varch
phone_number	varch
hire_date	date

Query Completed

8. Write a query to get the average salary and number of employees in the employees table.

select avg(salary) as avg_salary, count(employee_id) as 'no of employees' from employees;



```
select * from employees;
select avg(salary) as avg_salary, count(employee_id)
as 'no of employees' from employees;
```

avg_salary	no of employees
6461.682243	107

Table: employees

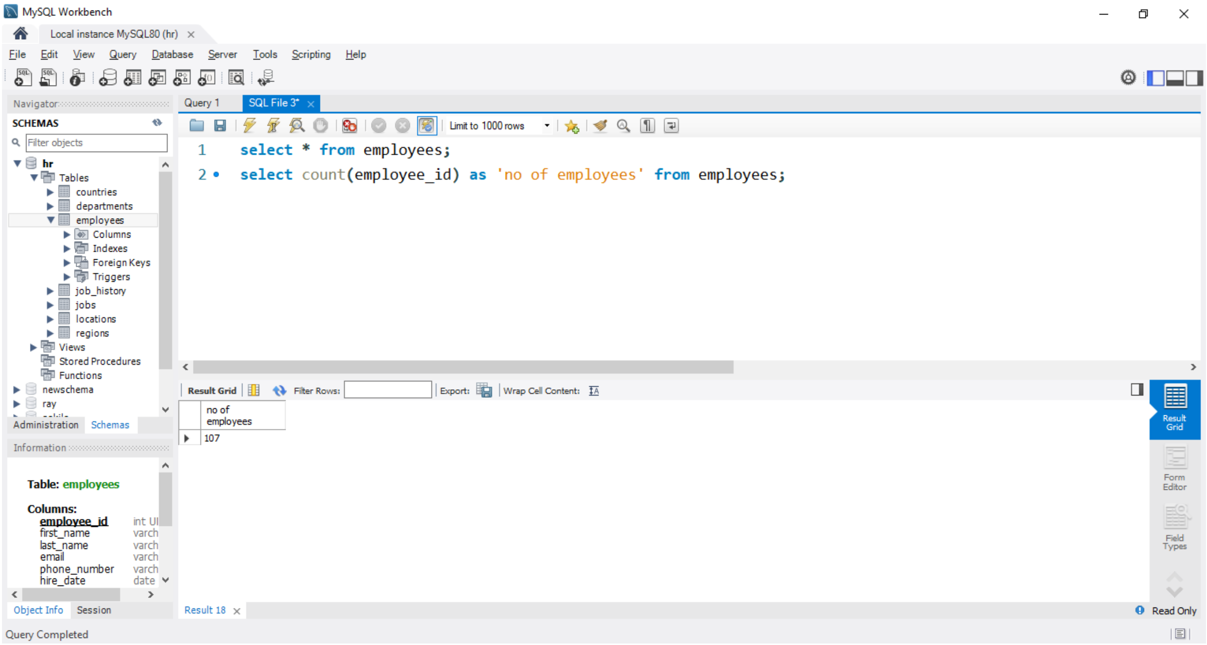
Columns:

employee_id	int UI
first_name	varch
last_name	varch
email	varch
phone_number	varch
hire_date	date

Query Completed

9. Write a query to get the number of employees working with the company

select count(employee_id) as 'no of employees' from employees;



```
select * from employees;
select count(employee_id) as 'no of employees' from employees;
```

```
no of
employees
107
```

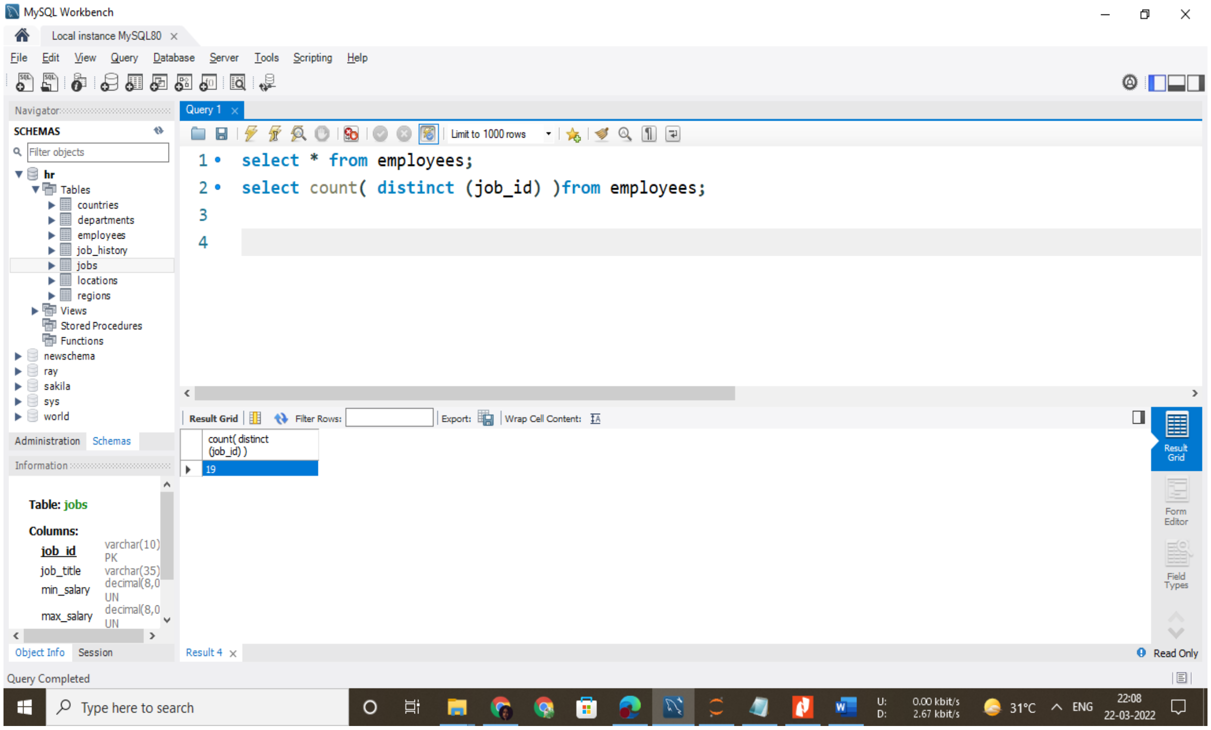
Table: employees

Columns:

employee_id	int UI
first_name	varch
last_name	varch
email	varch
phone_number	varch
hire_date	date

10. Write a query to get the number of jobs available in the employees table .

select count(distinct (job_id))from employees;



```
select * from employees;
select count( distinct (job_id) )from employees;
```

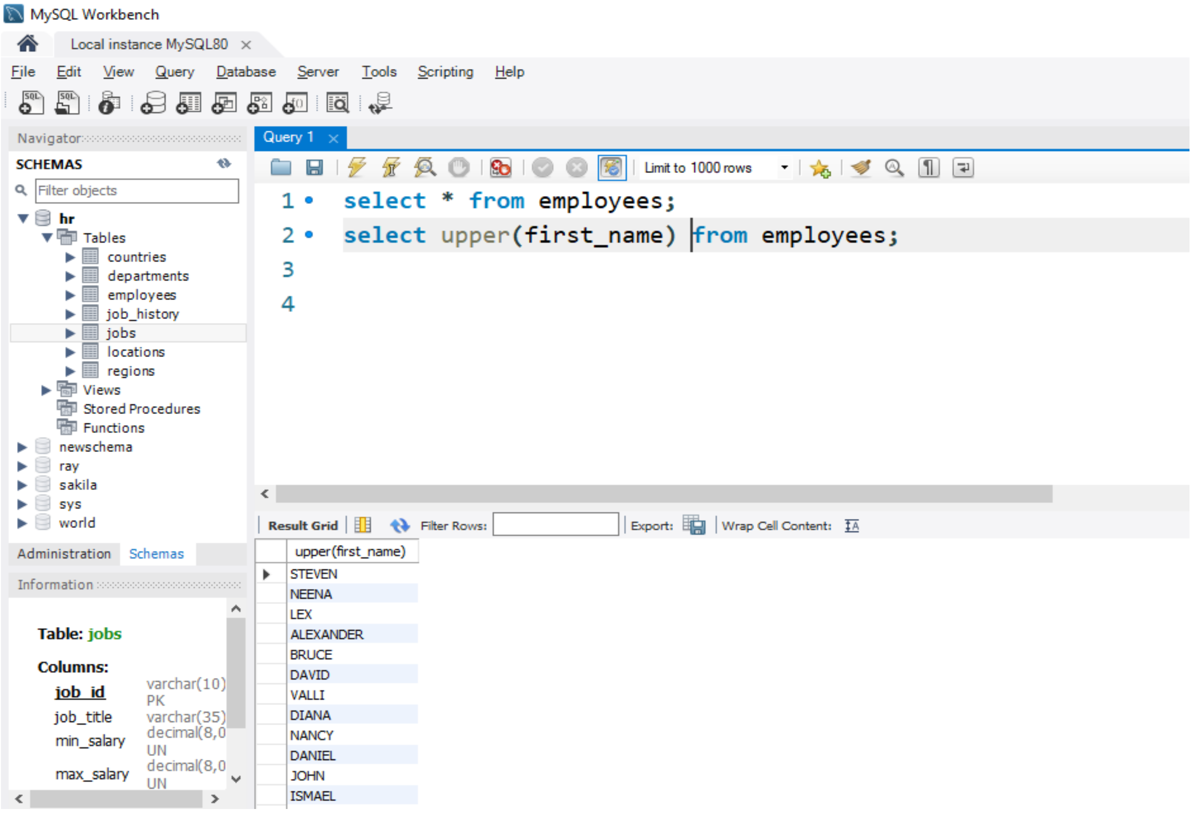
```
count( distinct
(job_id) )
19
```

Table: jobs

Columns:

job_id	varchar(10) PK
job_title	varchar(35)
min_salary	decimal(8,0 UN
max_salary	decimal(8,0 UN

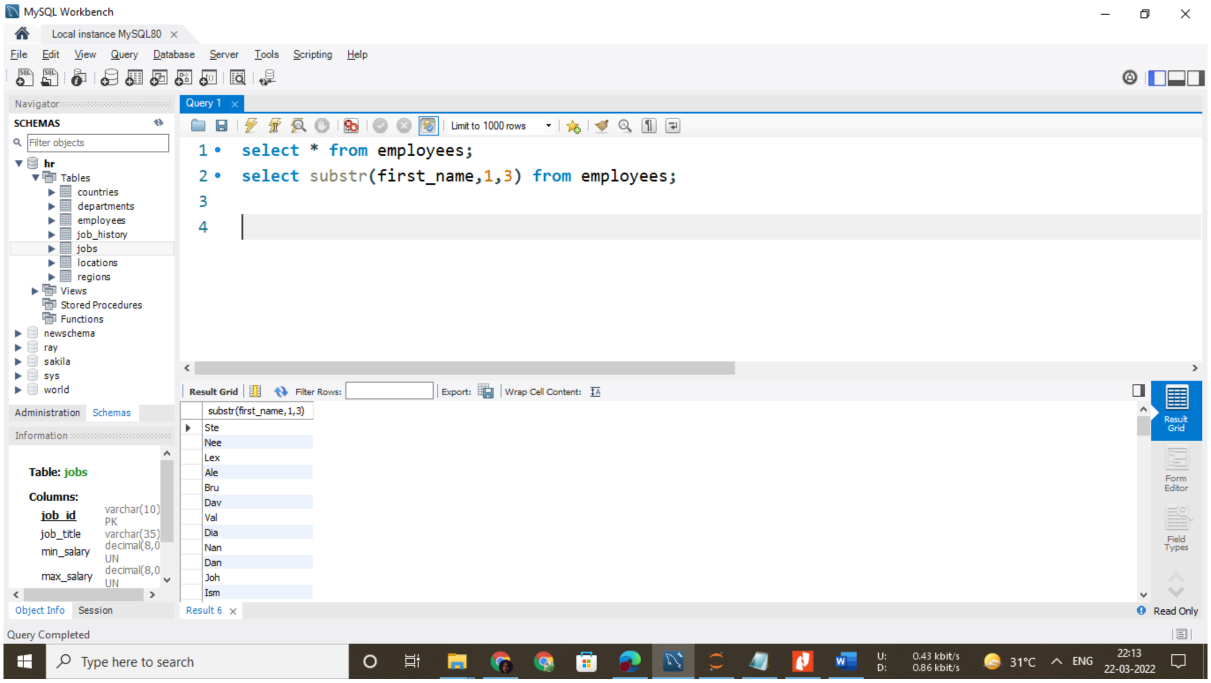
11. Write a query get all first name from employees table in upper case
select upper(first_name) from employees;



```
select * from employees;
select upper(first_name) from employees;
```

```
upper(first_name)
STEVEN
NEENA
LEX
ALEXANDER
BRUCE
DAVID
VALLI
DIANA
NANCY
DANIEL
JOHN
ISMAEL
```

12. Write a query to get the first 3 characters of first name from employees table
select substr(first_name,1,3) from employees;

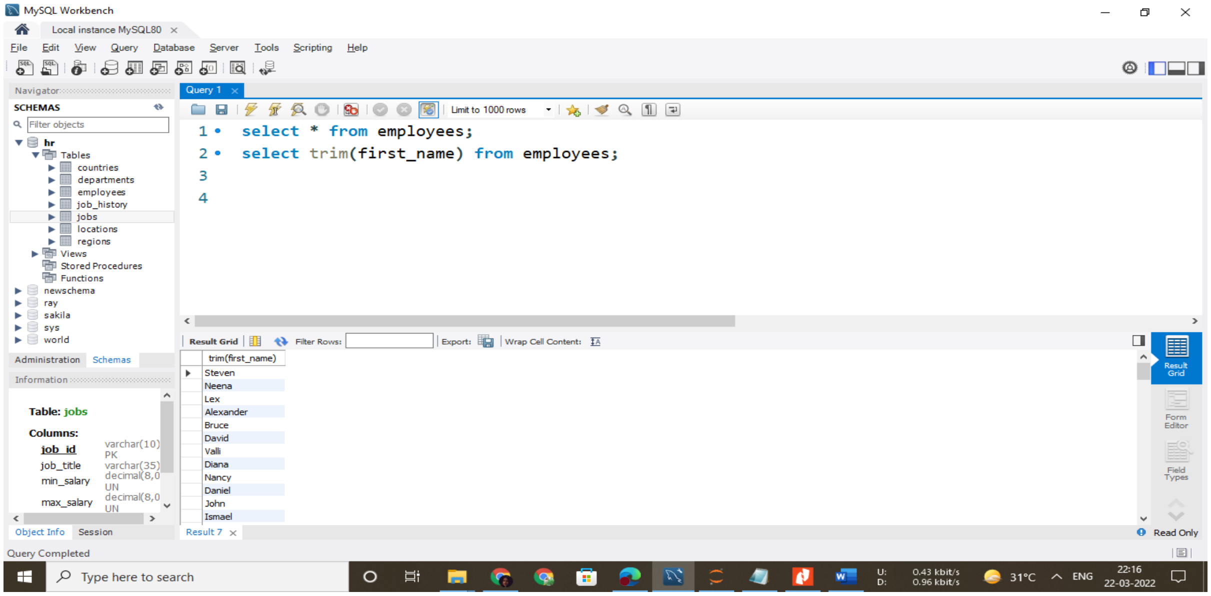


```
select * from employees;
select substr(first_name,1,3) from employees;
```

```
substr(first_name,1,3)
Ste
Nee
Lex
Ale
Bru
Dav
Val
Dia
Nan
Dan
Joh
Ism
```

13. Write a query to get first name from employees table after removing white spaces from both side

select trim(first_name) from employees;

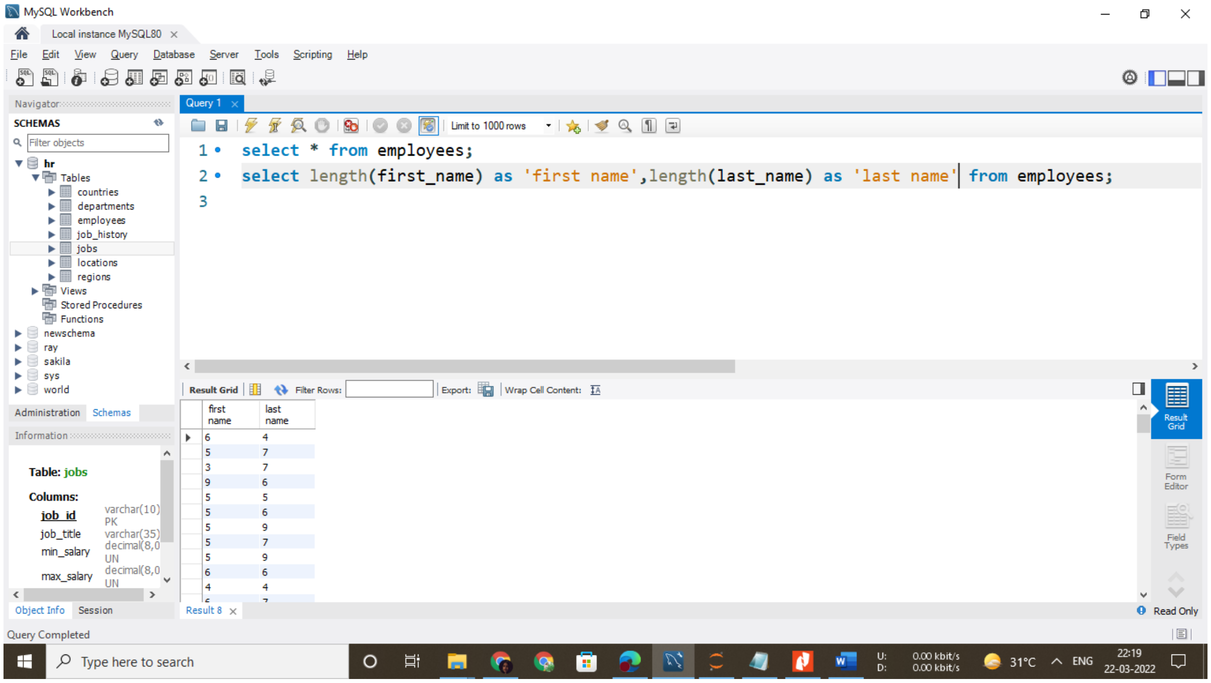


```
select * from employees;
select trim(first_name) from employees;
```

trim(first_name)
Steven
Neena
Lex
Alexander
Bruce
David
Valli
Diana
Nancy
Daniel
John
Ismael

14. Write a query to get the length of the employee names (first_name, last_name) from employees table

select length(first_name) as 'first name',length(last_name) as 'last name' from employees;

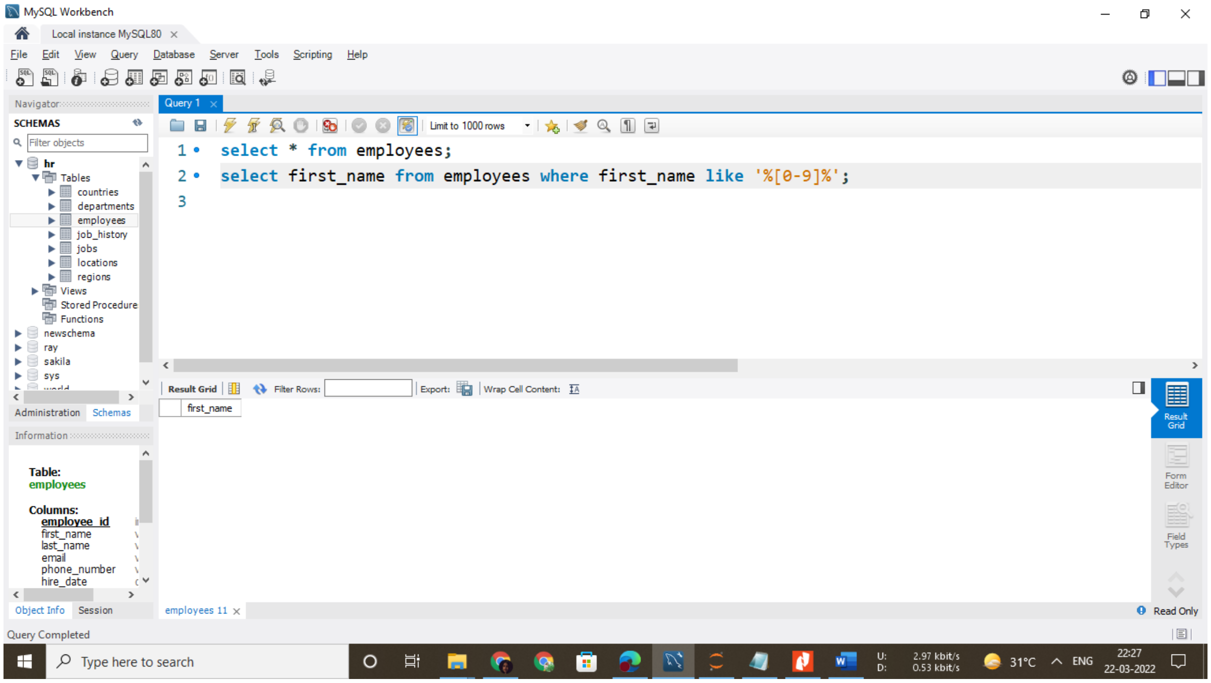


```
select * from employees;
select length(first_name) as 'first name',length(last_name) as 'last name' from employees;
```

first name	last name
6	4
5	7
3	7
9	6
5	5
5	6
5	9
5	7
5	9
6	6
4	4
6	7

15. Write a query to check if the first_name fields of the employees table contains numbers.

select first_name from employees where first_name like '%[0-9]%';



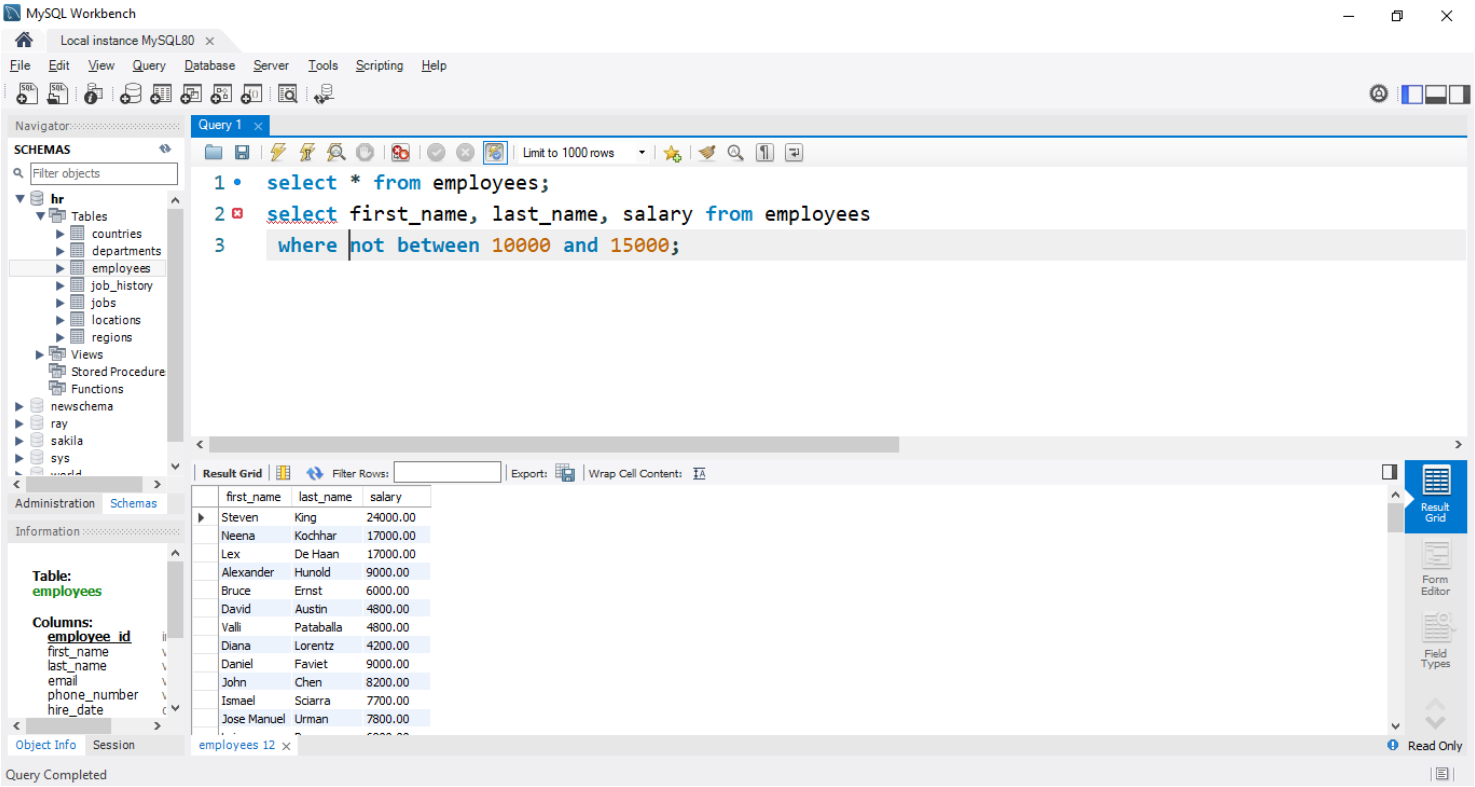
```
select * from employees;
select first_name from employees where first_name like '%[0-9]%';
```

first_name

Query Completed

16. Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000.

select first_name, last_name, salary from employees where salary not between 10000 and 15000;



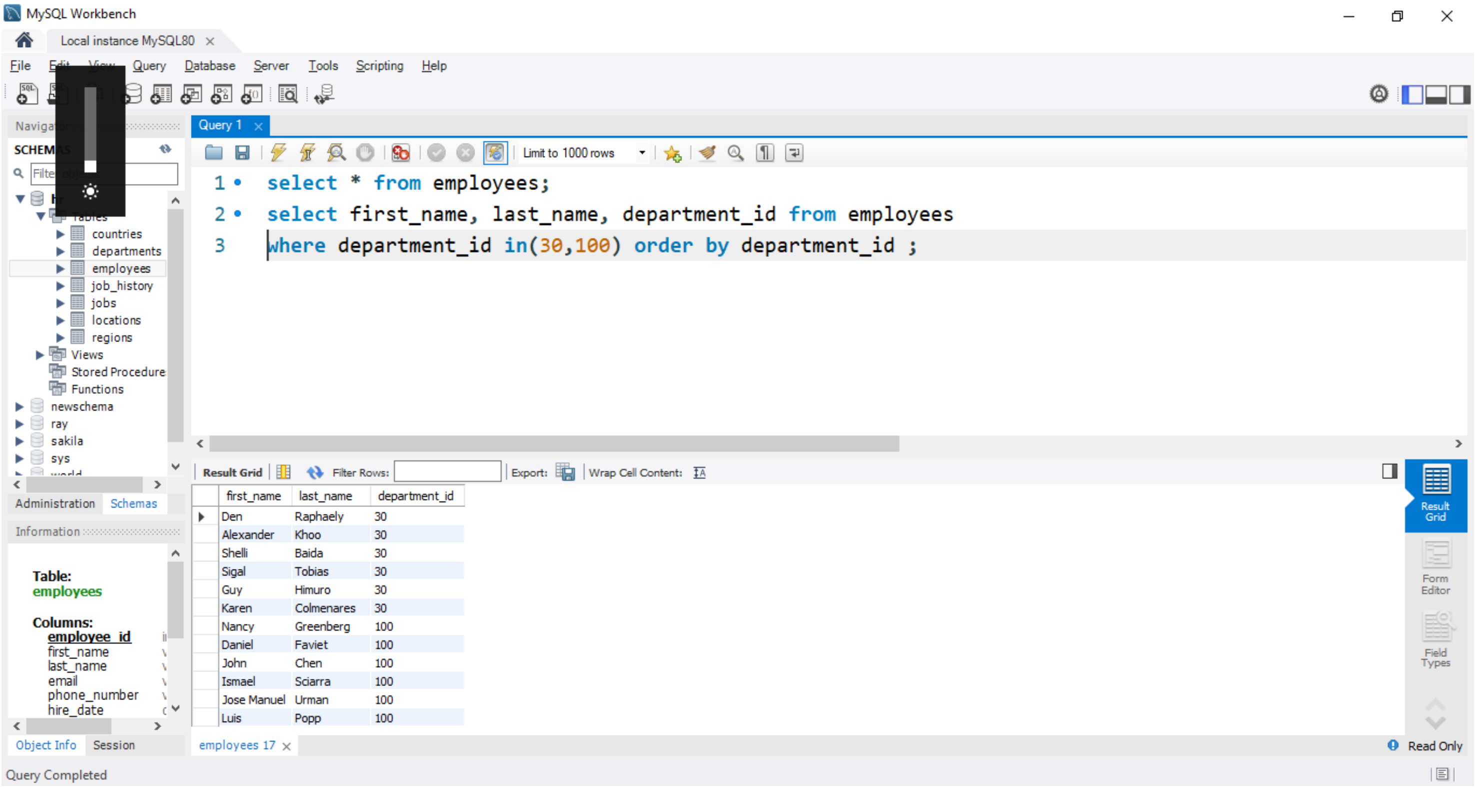
```
select * from employees;
select first_name, last_name, salary from employees
 where not between 10000 and 15000;
```

first_name	last_name	salary
Steven	King	24000.00
Neena	Kochhar	17000.00
Lex	De Haan	17000.00
Alexander	Hunold	9000.00
Bruce	Ernst	6000.00
David	Austin	4800.00
Valli	Pataballa	4800.00
Diana	Lorentz	4200.00
Daniel	Faviet	9000.00
John	Chen	8200.00
Ismael	Sciarra	7700.00
Jose Manuel	Urman	7800.00

Query Completed

17. Write a query to display the name (first_name, last_name) and department ID of all employees in departments 30 or 100 in ascending order

select first_name, last_name, department_id from employees
where department_id in(30,100) order by department_id ;



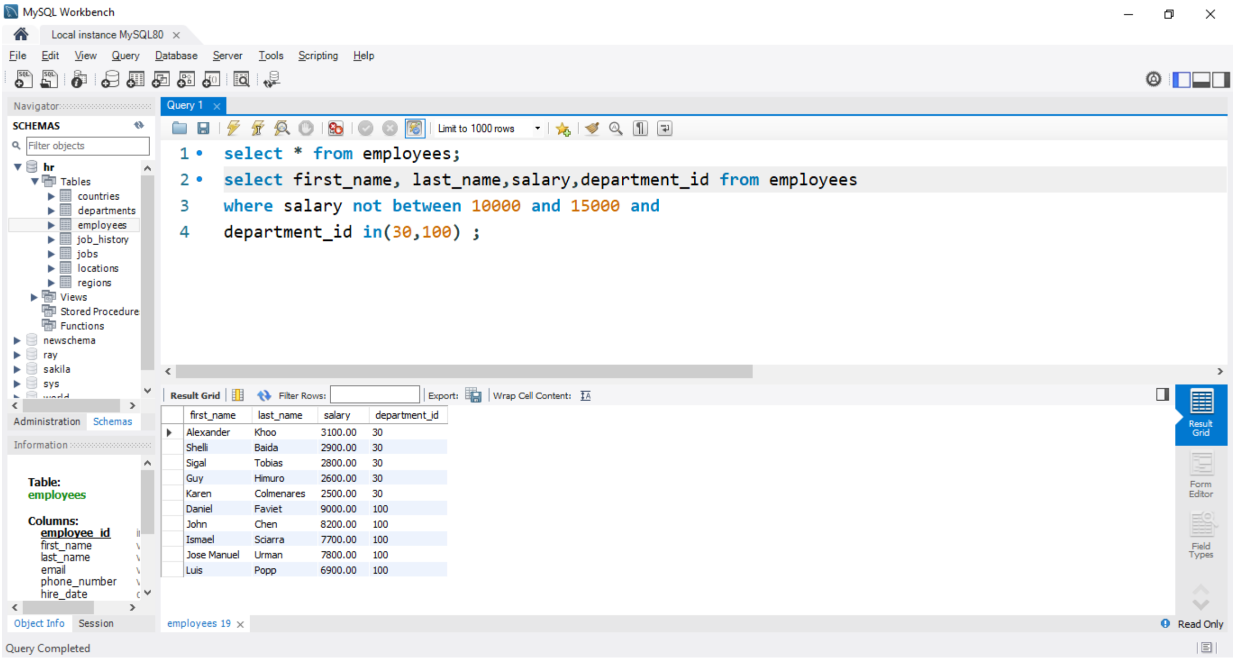
```
select * from employees;
select first_name, last_name, department_id from employees
where department_id in(30,100) order by department_id ;
```

first_name	last_name	department_id
Den	Raphaely	30
Alexander	Khoo	30
Shelli	Baida	30
Sigal	Tobias	30
Guy	Himuro	30
Karen	Colmenares	30
Nancy	Greenberg	100
Daniel	Faviet	100
John	Chen	100
Ismael	Sciarra	100
Jose Manuel	Urman	100
Luis	Popp	100

Query Completed

18. Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000 and are in department 30 or 100

select first_name, last_name,salary,department_id from employees where salary not between 10000 and 15000 and
department_id in(30,100) ;



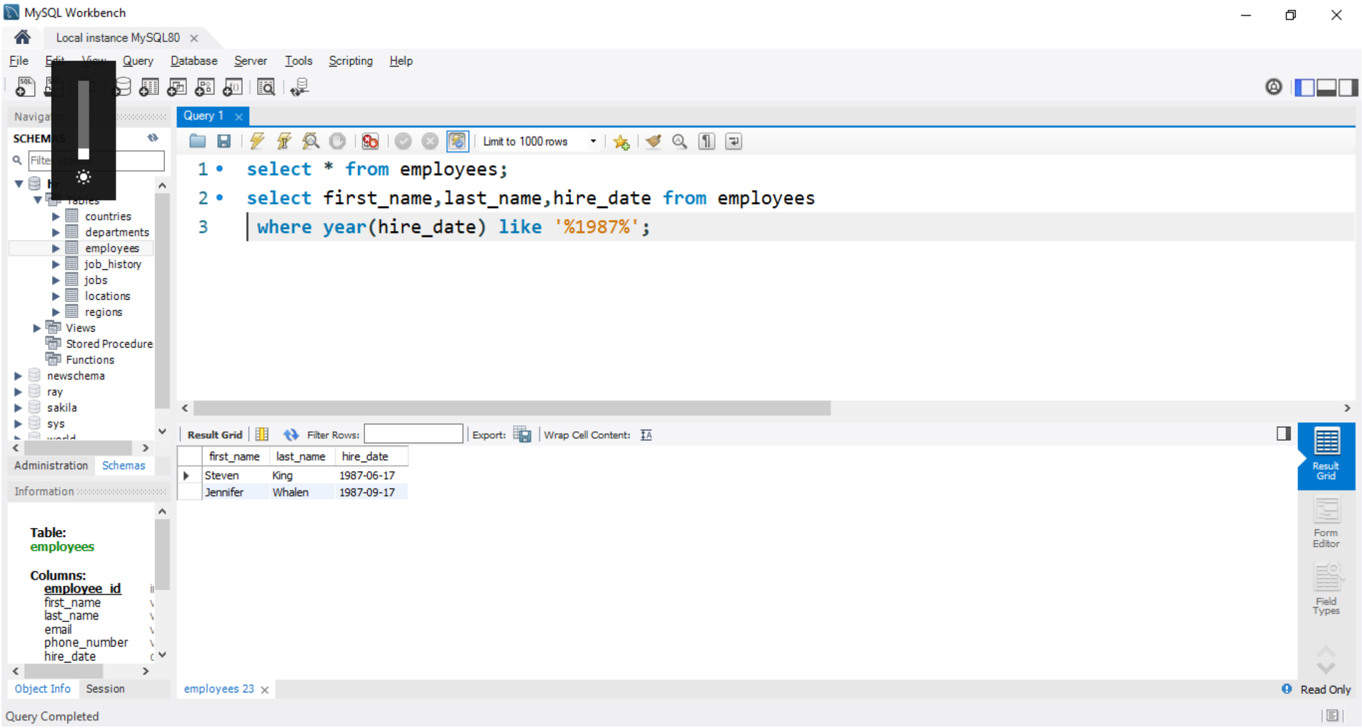
```
select * from employees;
select first_name, last_name,salary,department_id from employees
where salary not between 10000 and 15000 and
department_id in(30,100) ;
```

first_name	last_name	salary	department_id
Alexander	Khoo	3100.00	30
Shelli	Baida	2900.00	30
Sigal	Tobias	2800.00	30
Guy	Himuro	2600.00	30
Karen	Colmenares	2500.00	30
Daniel	Faviet	9000.00	100
John	Chen	8200.00	100
Ismael	Sciarra	7700.00	100
Jose Manuel	Urman	7800.00	100
Luis	Popp	6900.00	100

Query Completed

19. Write a query to display the name (first_name, last_name) and hire date for all employees who were hired in 1987.

select first_name,last_name,hire_date from employees where year(hire_date) like '%1987%';

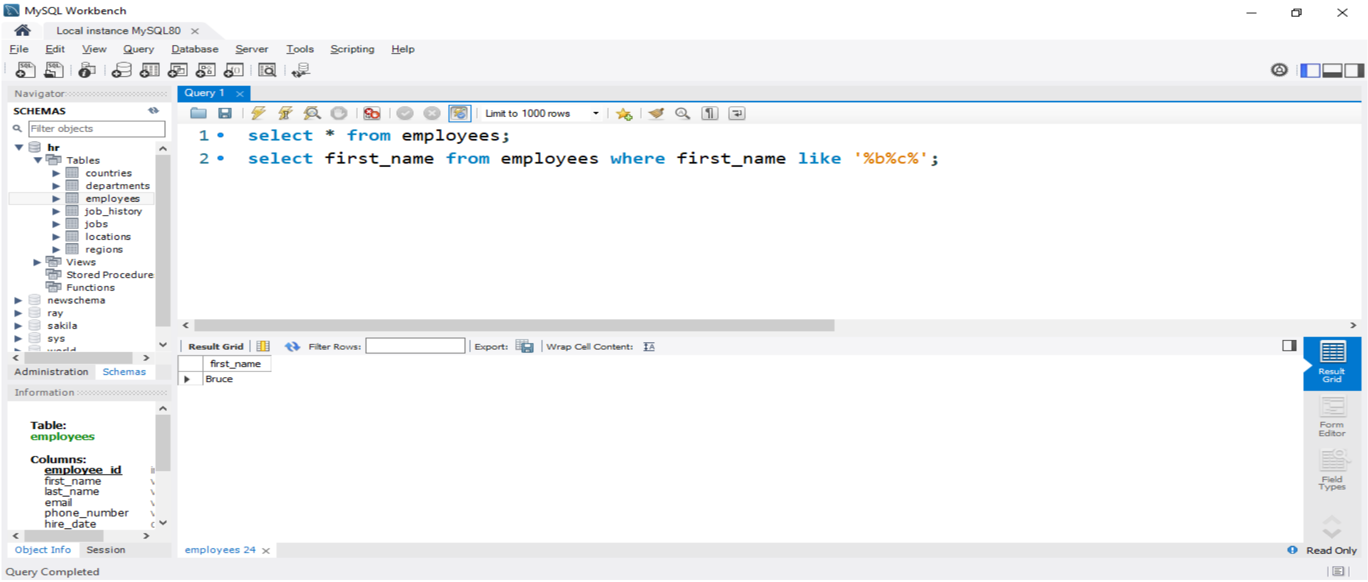


```
select * from employees;
select first_name,last_name,hire_date from employees
where year(hire_date) like '%1987%';
```

```
first_name  last_name  hire_date
Steven      King       1987-06-17
Jennifer    Whalen     1987-09-17
```

20. Write a query to display the first_name of all employees who have both "b" and "c" in their first name

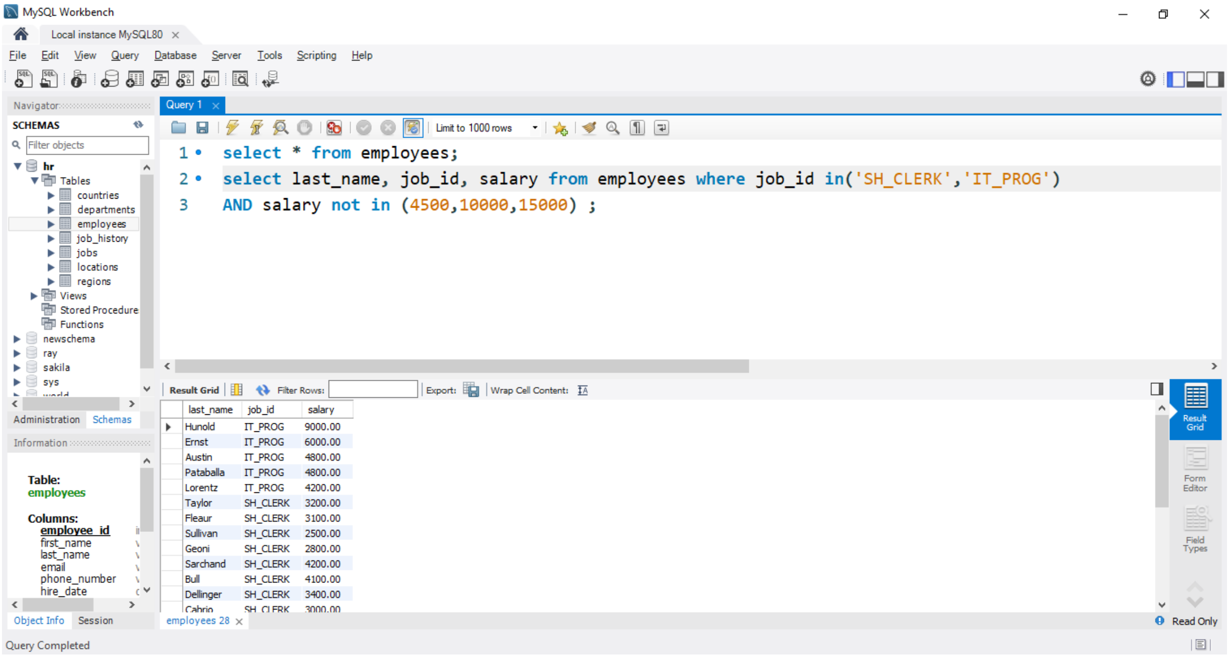
select first_name from employees where first_name like '%b%c%';



```
select * from employees;
select first_name from employees where first_name like '%b%c%';
```

```
first_name
Bruce
```

21. Write a query to display the last name, job, and salary for all employees whose job is that of a Programmer or a Shipping Clerk, and whose salary is not equal to $4,500, $10,000, or $15,000

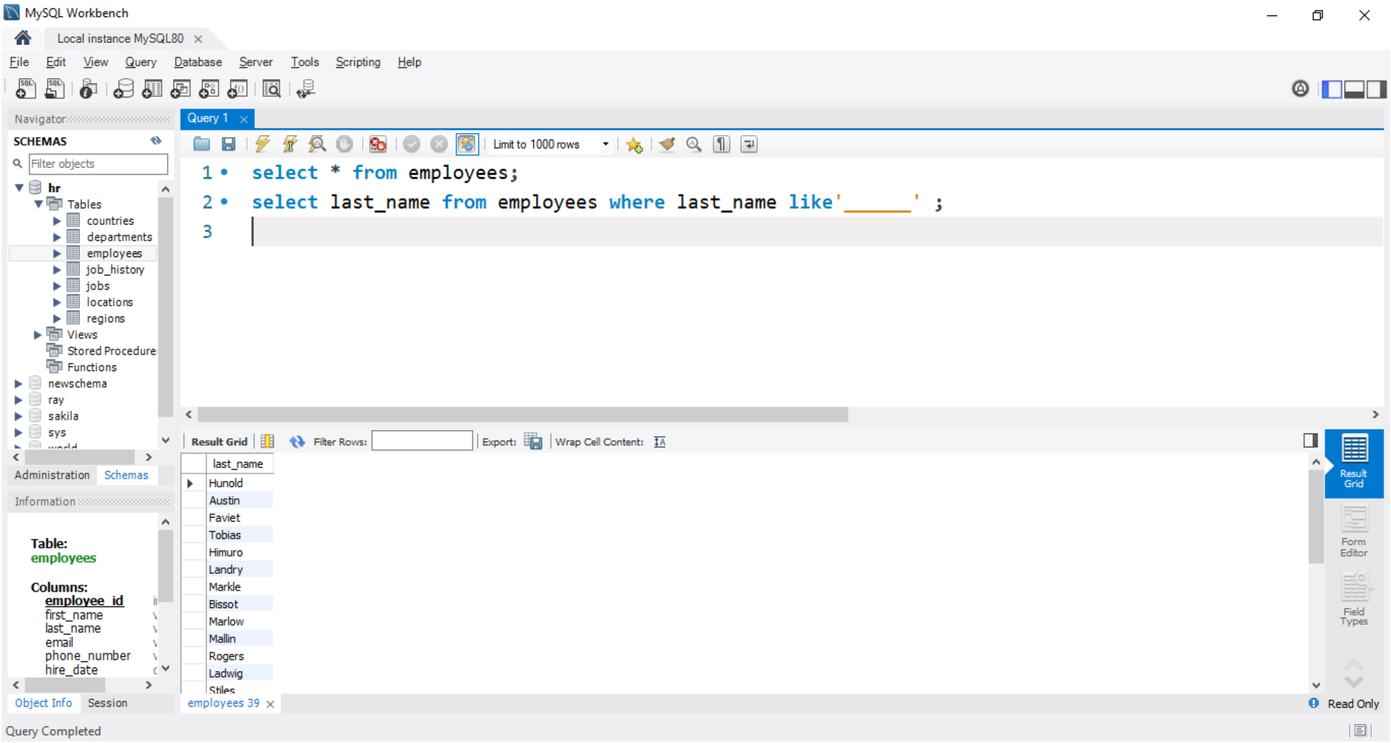


```
select * from employees;
select last_name, job_id, salary from employees where job_id in('SH_CLERK','IT_PROG')
AND salary not in (4500,10000,15000) ;
```

last_name	job_id	salary
Hunold	IT_PROG	9000.00
Ernst	IT_PROG	6000.00
Austin	IT_PROG	4800.00
Pataballa	IT_PROG	4800.00
Lorentz	IT_PROG	4200.00
Taylor	SH_CLERK	3200.00
Fleaur	SH_CLERK	3100.00
Sullivan	SH_CLERK	2500.00
Geoni	SH_CLERK	2800.00
Sarchand	SH_CLERK	4200.00
Bull	SH_CLERK	4100.00
Dellinger	SH_CLERK	3400.00
Cabrio	SH_CLERK	3000.00

employees 28

22. Write a query to display the last name of employees whose names have exactly 6 characters
select last_name from employees where last_name like'   ' ;

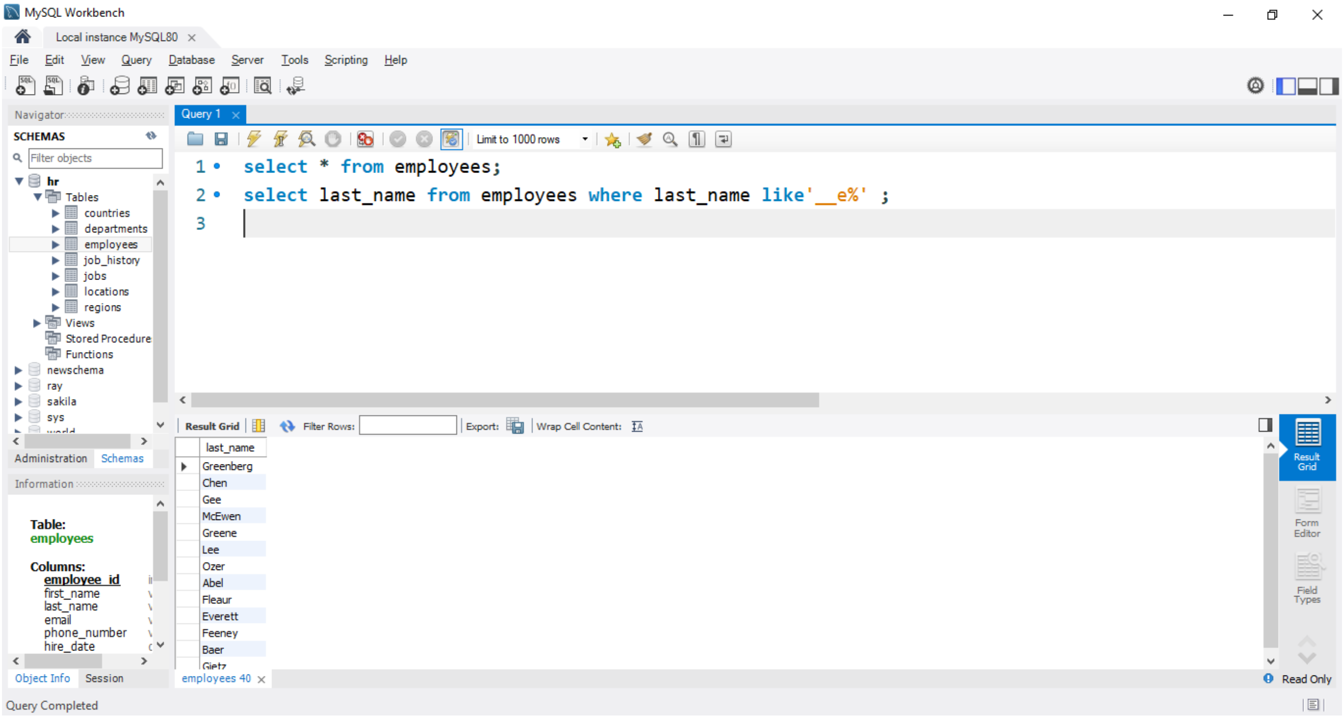


```
select * from employees;
select last_name from employees where last_name like'______' ;
```

last_name
Hunold
Austin
Faviet
Tobias
Himuro
Landry
Markle
Bissot
Marlow
Mallin
Rogers
Ladwig
Stiles

employees 39

23. Write a query to display the last name of employees having 'e' as the third character
select last_name from employees where last_name like'__e%' ;



```
select * from employees;
select last_name from employees where last_name like'__e%' ;
```

Table: employees

Columns:
employee_id
first_name
last_name
email
phone_number
hire_date

last_name
Greenberg
Chen
Gee
McEwen
Greene
Lee
Ozer
Abel
Fleaur
Everett
Feeney
Baer
Gietz

Query Completed

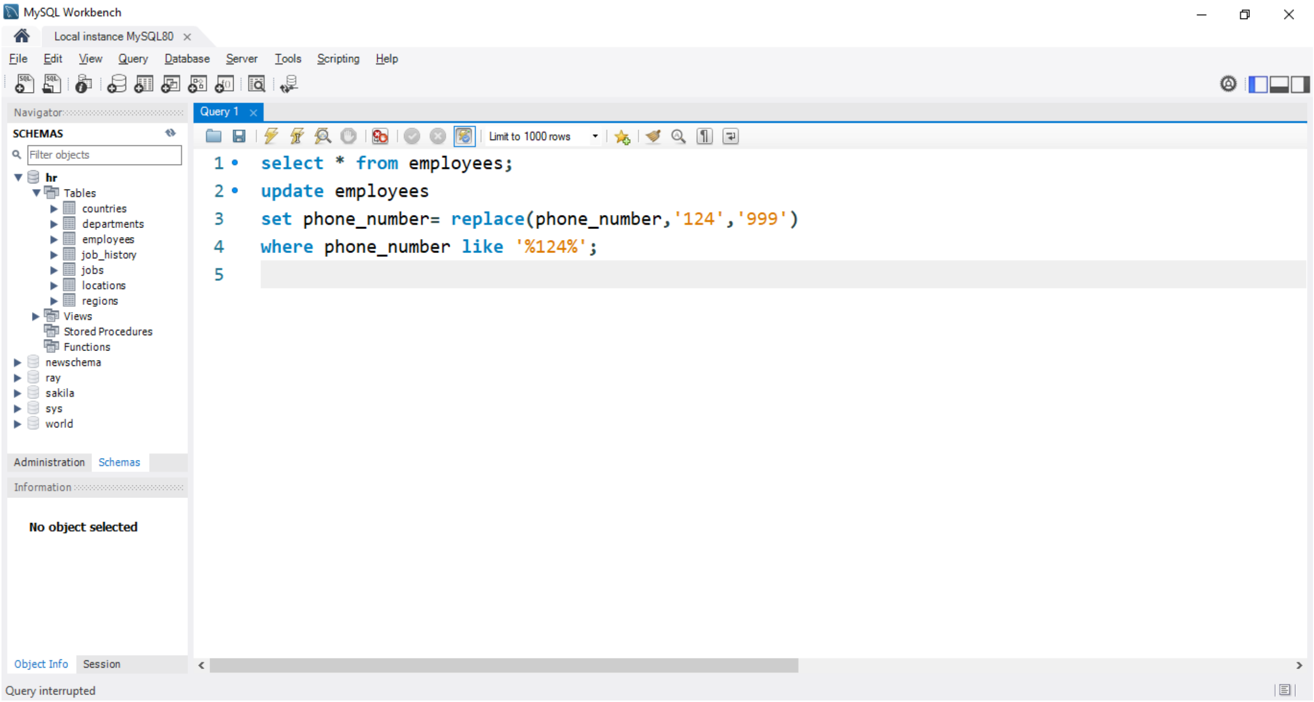
24. Write a query to get the job_id and related employee's id

Partial output of the query :

job_id	Employees ID
AC_ACCOUNT	206
AC_MGR	205
AD_ASST	200
AD_PRES	100
AD_VP	101 ,102
FI_ACCOUNT	110 ,113 ,111 ,109 ,112

select job_id, group_concat(employee_id) as emp_id
from employees group by job_id ;

25. Write a query to update the portion of the phone_number in the employees table, within the phone number the substring '124' will be replaced by '999'

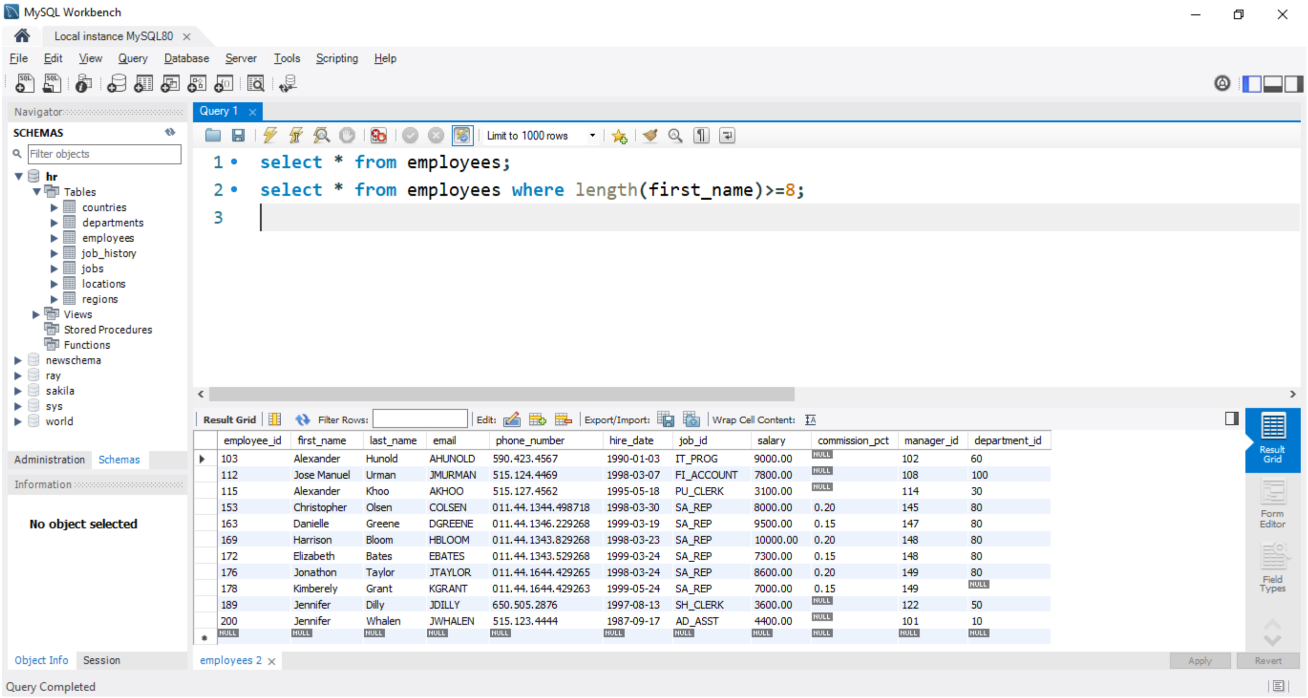


```
select * from employees;
update employees
set phone_number= replace(phone_number,'124','999')
where phone_number like '%124%';
```

Query interrupted

26. Write a query to get the details of the employees where the length of the first name greater than or equal to 8

select * from employees where length(first_name)>=8;

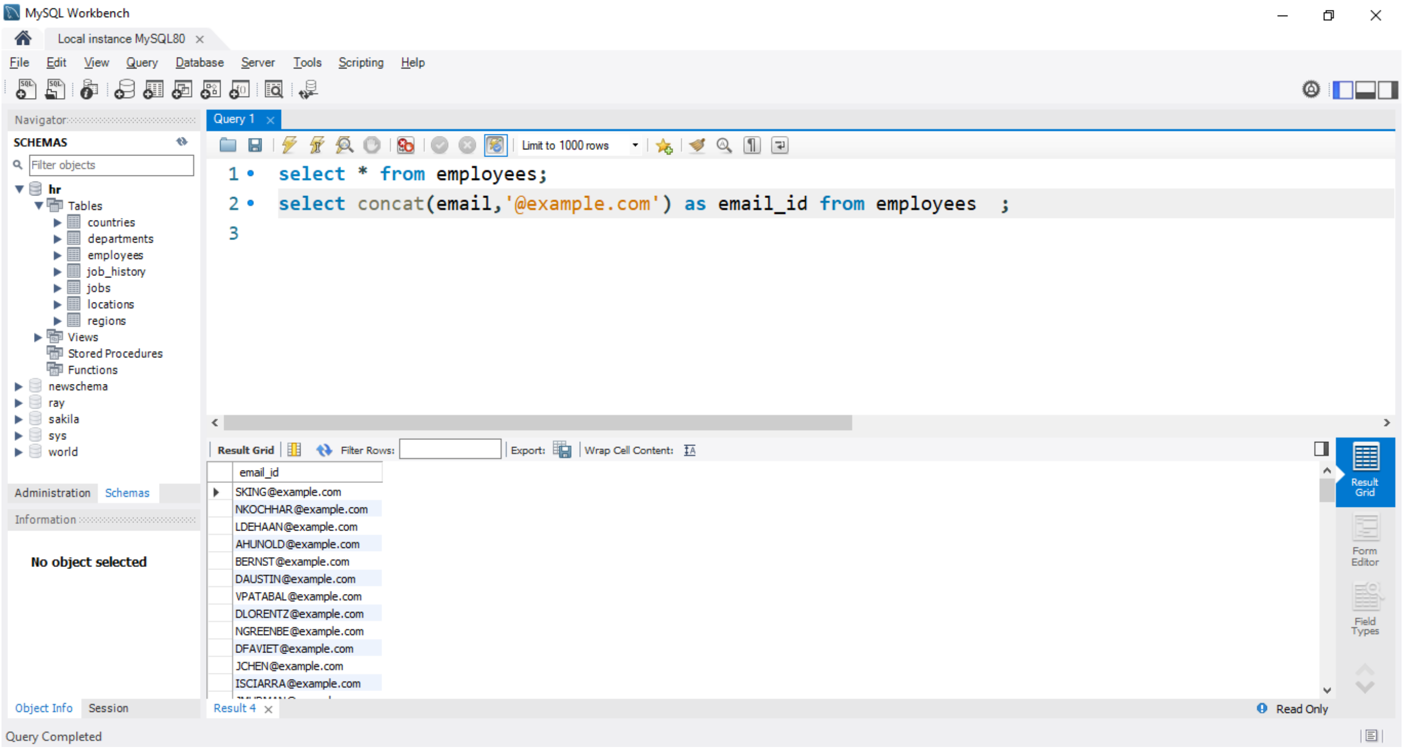


```
select * from employees;
select * from employees where length(first_name)>=8;
```

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00	NULL	102	60
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	NULL	108	100
115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00	NULL	114	30
153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0.20	145	80
163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	0.15	147	80
169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00	0.20	148	80
172	Elizabeth	Bates	EBATES	011.44.1343.529268	1999-03-24	SA_REP	7300.00	0.15	148	80
176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	1998-03-24	SA_REP	8600.00	0.20	149	80
178	Kimberely	Grant	KGRANT	011.44.1644.429263	1999-05-24	SA_REP	7000.00	0.15	149	NULL
189	Jennifer	Dilly	JDILLY	650.505.2876	1997-08-13	SH_CLERK	3600.00	NULL	122	50
200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-17	AD_ASST	4400.00	NULL	101	10
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Query Completed

27. Write a query to append '@example.com' to email field
select concat(email,'@example.com') as email_id from employees;

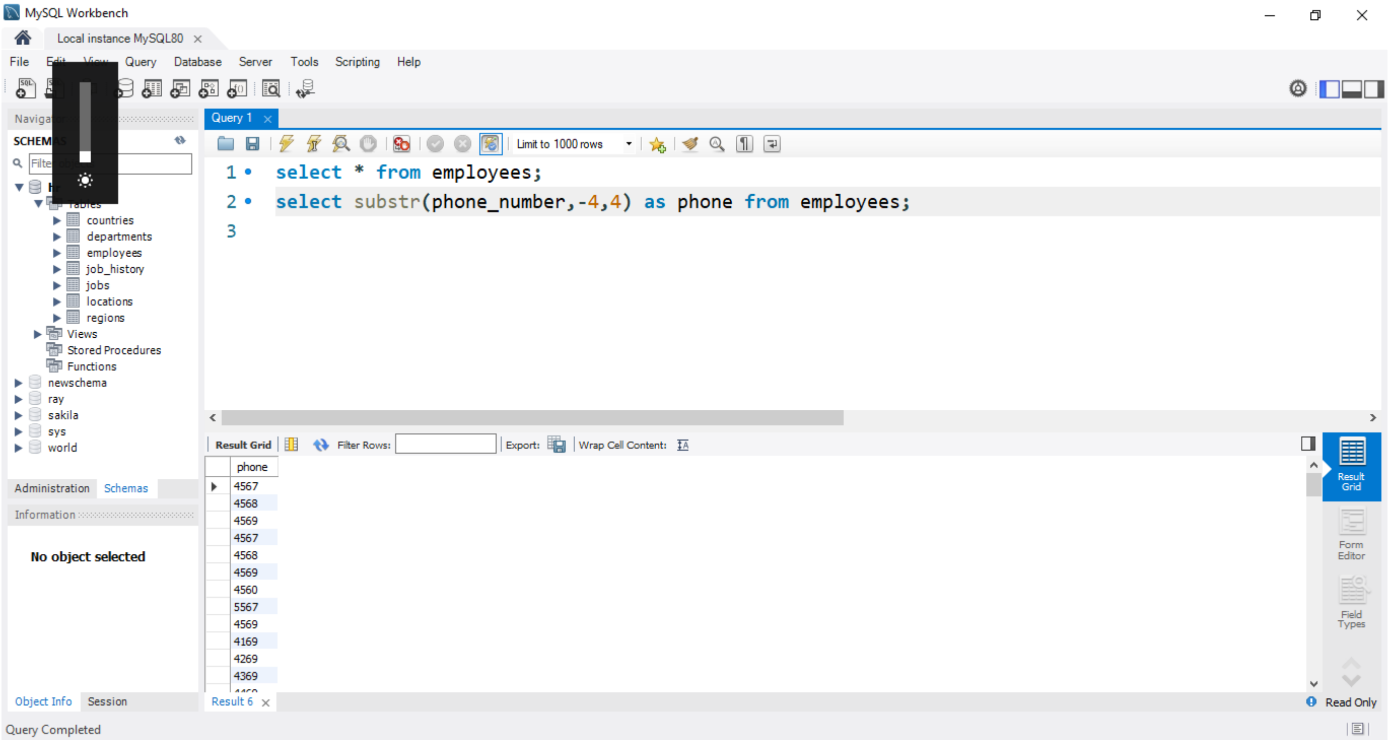


```
select * from employees;
select concat(email,'@example.com') as email_id from employees  ;
```

email_id
SKING@example.com
NKOCHHAR@example.com
LDEHAAN@example.com
AHUNOLD@example.com
BERNST@example.com
DAUSTIN@example.com
VPATABAL@example.com
DLORENTZ@example.com
NGREENBE@example.com
DFAVIET@example.com
JCHEN@example.com
ISCIARRA@example.com

Query Completed

28. Write a query to extract the last 4 character of phone numbers
select substr(phone_number,-4,4) as phone from employees;



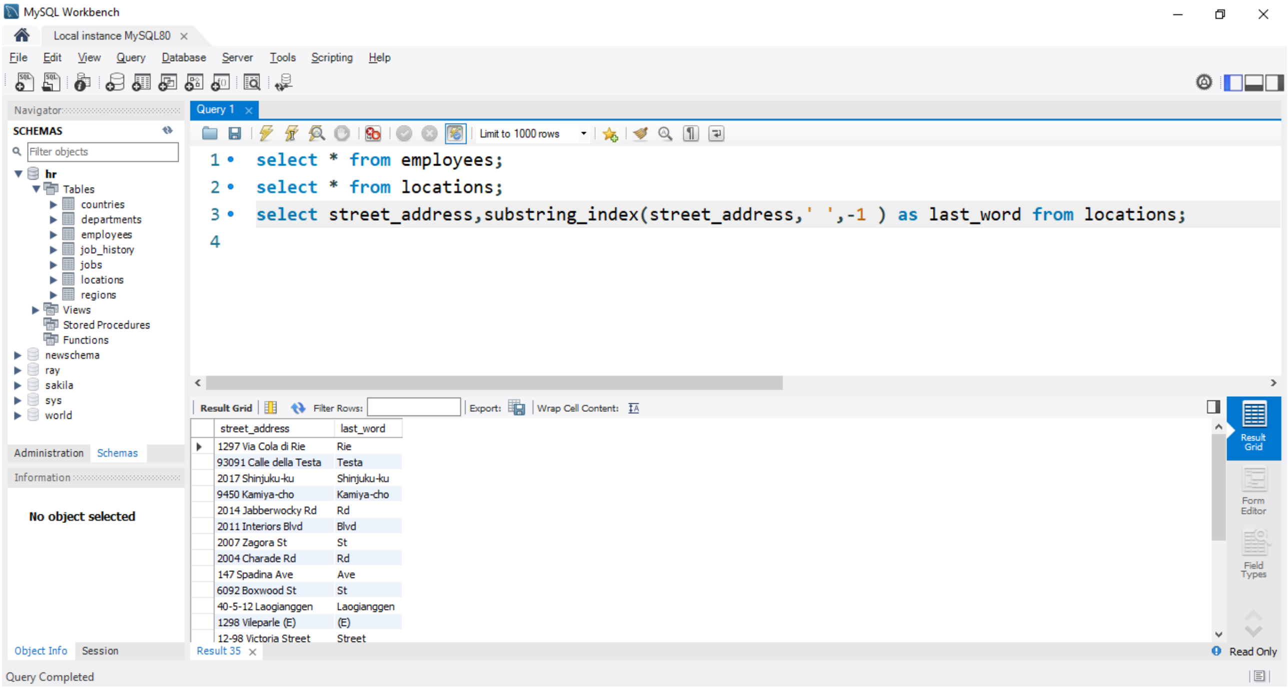
```
select * from employees;
select substr(phone_number,-4,4) as phone from employees;
```

phone
4567
4568
4569
4567
4568
4569
4560
5567
4569
4169
4269
4369

Query Completed

29. Write a query to get the last word of the street address

select street_address,substring_index(street_address,' ',-1) as last_word from locations;



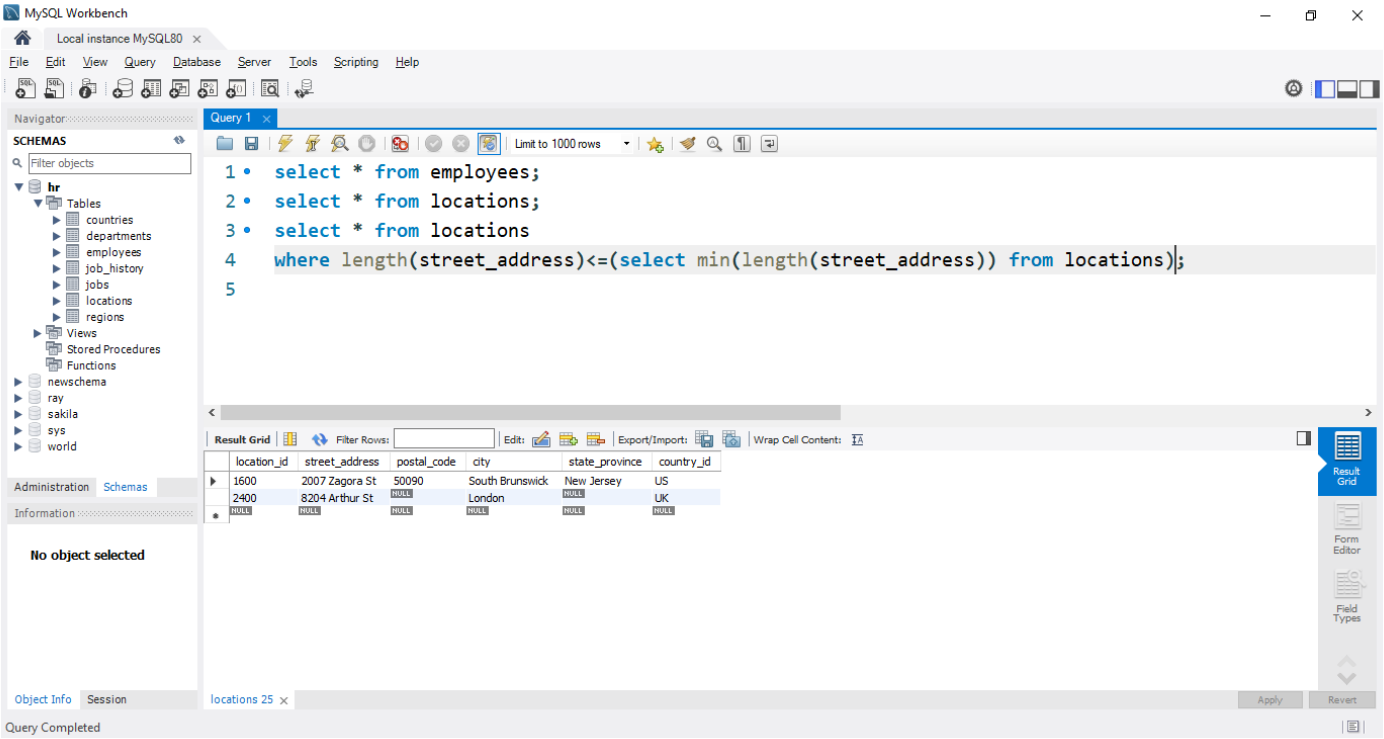
```
select * from employees;
select * from locations;
select street_address,substring_index(street_address,' ',-1 ) as last_word from locations;
```

street_address	last_word
1297 Via Cola di Rie	Rie
93091 Calle della Testa	Testa
2017 Shinjuku-ku	Shinjuku-ku
9450 Kamiya-cho	Kamiya-cho
2014 Jabberwocky Rd	Rd
2011 Interiors Blvd	Blvd
2007 Zagora St	St
2004 Charade Rd	Rd
147 Spadina Ave	Ave
6092 Boxwood St	St
40-5-12 Laogianggen	Laogianggen
1298 Vileparle (E)	(E)
12-98 Victoria Street	Street

Query Completed

30. Write a query to get the locations that have minimum street length

select * from locations where length(street_address)<=(select min(length(street_address)) from locations);



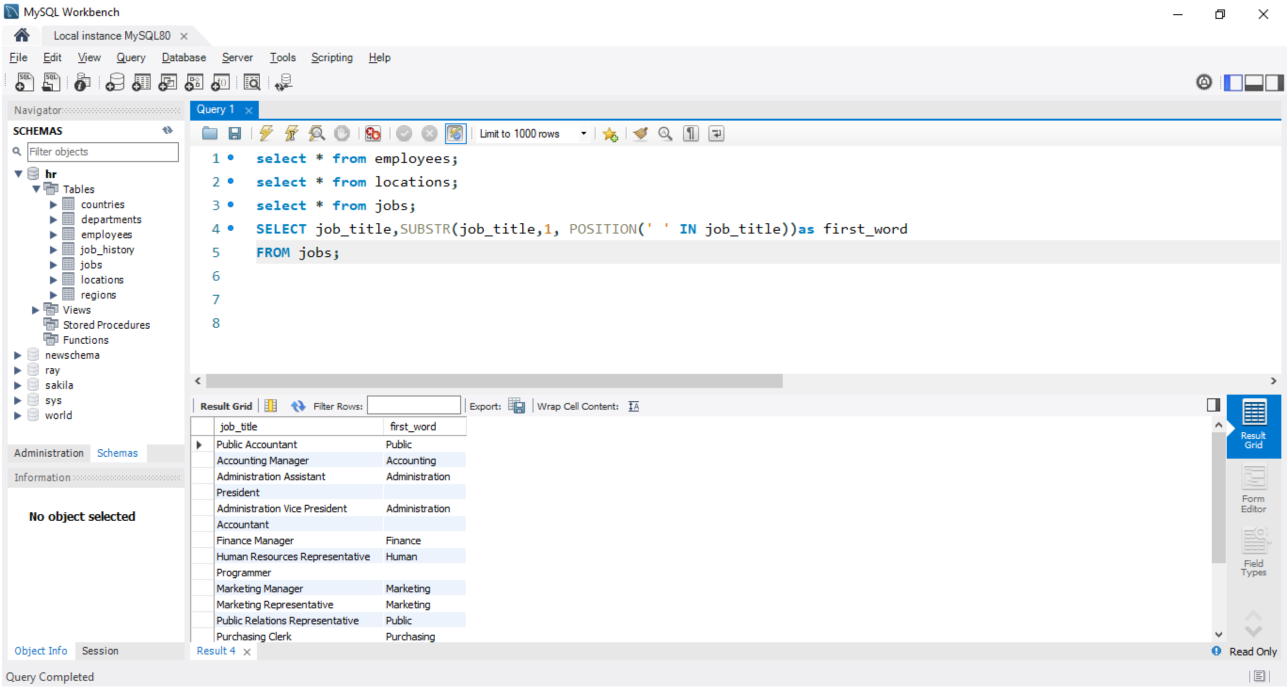
```
select * from employees;
select * from locations;
select * from locations
where length(street_address)<=(select min(length(street_address)) from locations);
```

location_id	street_address	postal_code	city	state_province	country_id
1600	2007 Zagora St	50090	South Brunswick	New Jersey	US
2400	8204 Arthur St	NULL	London	NULL	UK
NULL	NULL	NULL	NULL	NULL	NULL

Query Completed

31. Write a query to display the first word from those job titles which contains more than one words

SELECT job_title,SUBSTR(job_title,1, POSITION(' ' IN job_title))as first_word
FROM jobs;.

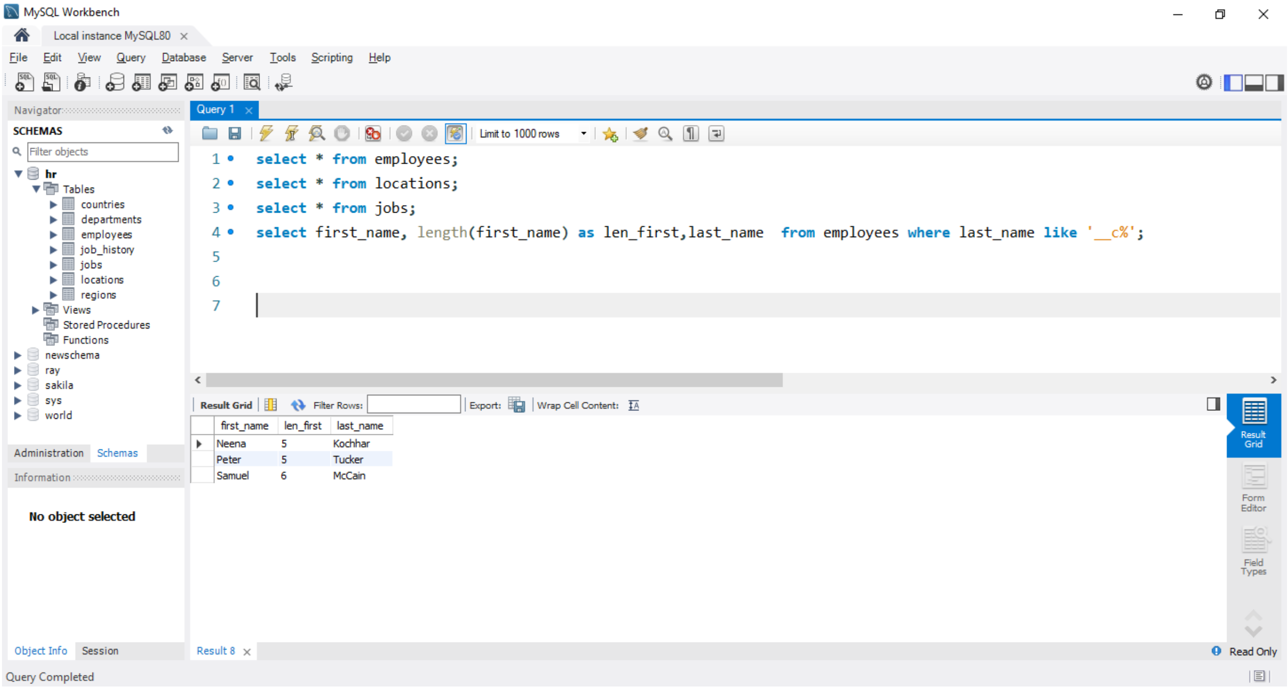


```
select * from employees;
select * from locations;
select * from jobs;
SELECT job_title,SUBSTR(job_title,1, POSITION(' ' IN job_title))as first_word
FROM jobs;
```

job_title	first_word
Public Accountant	Public
Accounting Manager	Accounting
Administration Assistant	Administration
President	
Administration Vice President	Administration
Accountant	
Finance Manager	Finance
Human Resources Representative	Human
Programmer	
Marketing Manager	Marketing
Marketing Representative	Marketing
Public Relations Representative	Public
Purchasing Clerk	Purchasing

32. Write a query to display the length of first name for employees where last name contain character 'c' after 2nd position

select first_name, length(first_name) as len_first,last_name from employees where last_name like '__c%';

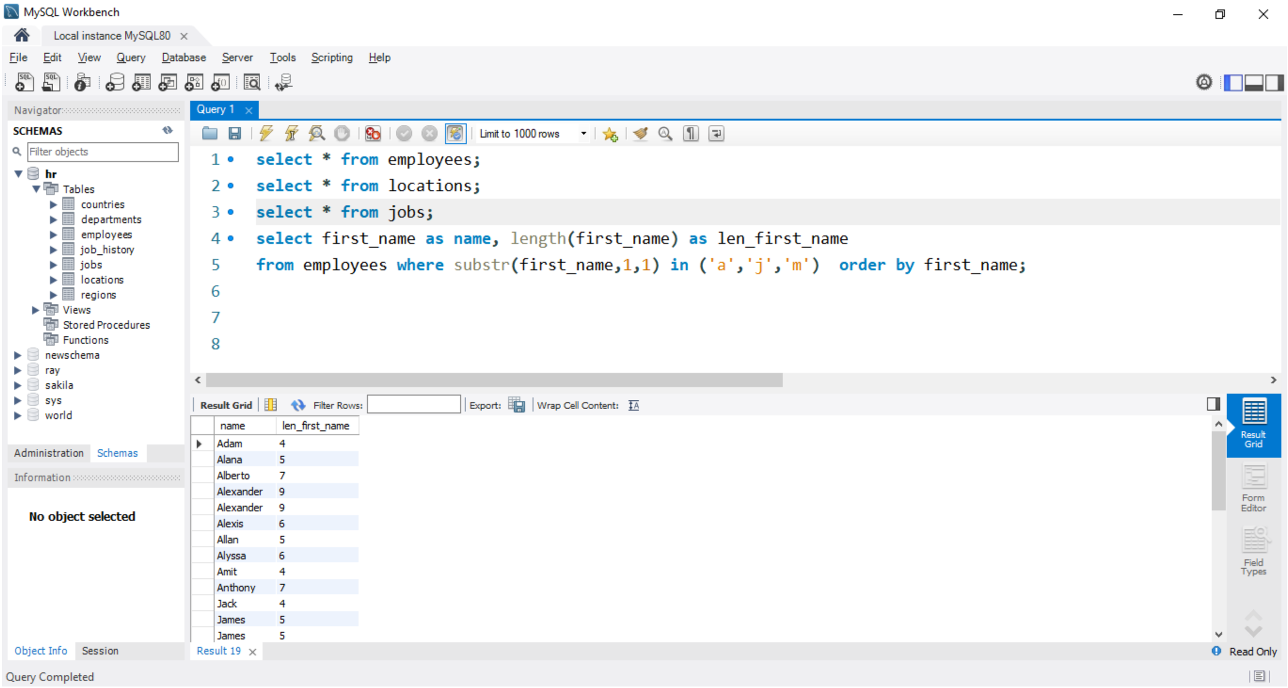


```
select * from employees;
select * from locations;
select * from jobs;
select first_name, length(first_name) as len_first,last_name  from employees where last_name like '__c%';
```

first_name	len_first	last_name
Neena	5	Kochhar
Peter	5	Tucker
Samuel	6	McCain

33. Write a query that displays the first name and the length of the first name for all employees whose name starts with the letters 'A', 'J' or 'M'. Give each column an appropriate label. Sort the results by the employees' first names.

select first_name as name, length(first_name) as len_first_name
from employees where substr(first_name,1,1) in ('a','j','m') order by first_name;



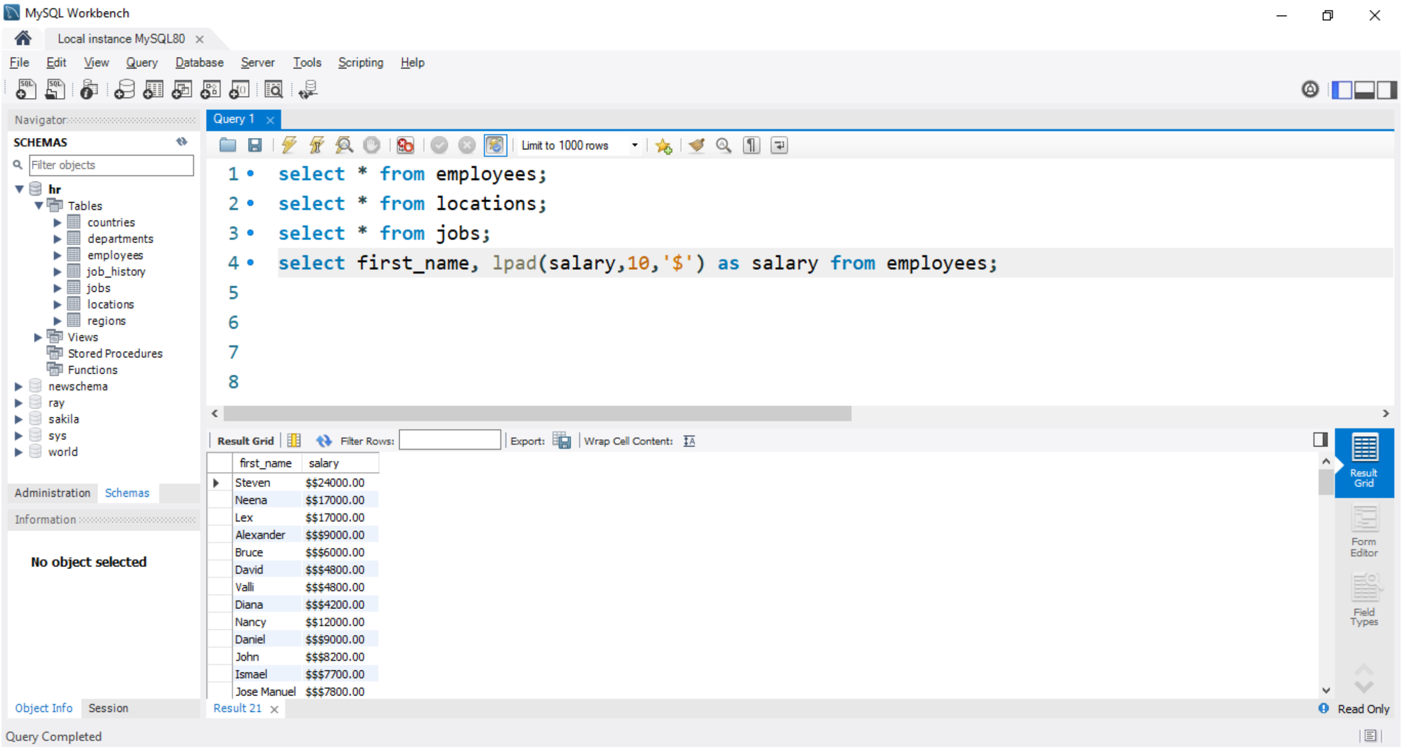
```
select * from employees;
select * from locations;
select * from jobs;
select first_name as name, length(first_name) as len_first_name
from employees where substr(first_name,1,1) in ('a','j','m')  order by first_name;
```

name	len_first_name
Adam	4
Alana	5
Alberto	7
Alexander	9
Alexander	9
Alexis	6
Allan	5
Alyssa	6
Amit	4
Anthony	7
Jack	4
James	5
James	5

Query Completed

34. Write a query to display the first name and salary for all employees. Format the salary to be 10 characters long, left-padded with the $ symbol. Label the column SALARY

select first_name, lpad(salary,10,'$') as salary from employees;



```
select * from employees;
select * from locations;
select * from jobs;
select first_name, lpad(salary,10,'$') as salary from employees;
```

first_name	salary
Steven	$$24000.00
Neena	$$17000.00
Lex	$$17000.00
Alexander	$$$9000.00
Bruce	$$$6000.00
David	$$$4800.00
Valli	$$$4800.00
Diana	$$$4200.00
Nancy	$$12000.00
Daniel	$$$9000.00
John	$$$8200.00
Ismael	$$$7700.00
Jose Manuel	$$$7800.00

Query Completed

35. Write a query to display the first eight characters of the employees' first names and indicates the amounts of their salaries with '$' sign. Each '$' sign signifies a thousand dollars. Sort the data in descending order of salary

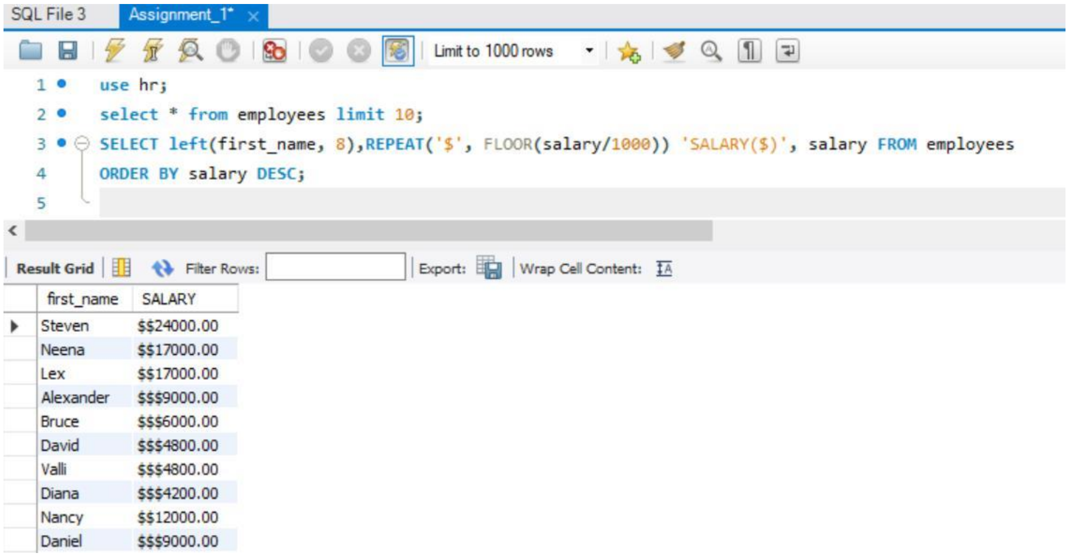
SELECT left(first_name, 8),

REPEAT('$', FLOOR(salary/1000))

'SALARY($)', salary

FROM employees

ORDER BY salary DESC;



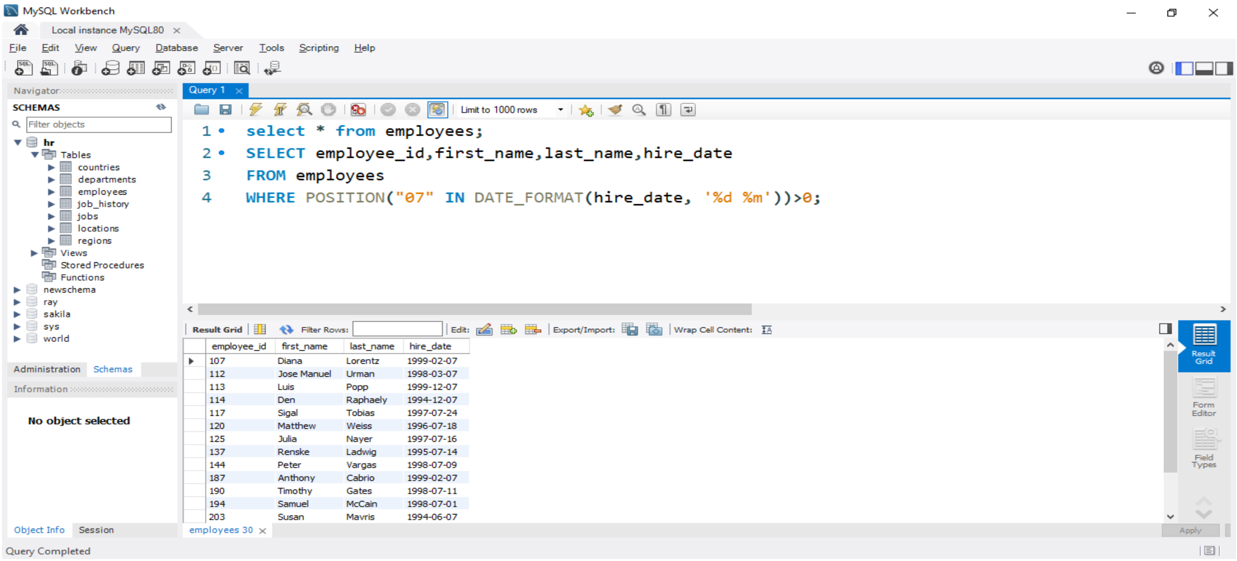
```
use hr;
select * from employees limit 10;
SELECT left(first_name, 8),REPEAT('$', FLOOR(salary/1000)) 'SALARY($)', salary FROM employees
ORDER BY salary DESC;
```

first_name	SALARY
Steven	$$24000.00
Neena	$$17000.00
Lex	$$17000.00
Alexander	$$$9000.00
Bruce	$$$6000.00
David	$$$4800.00
Valli	$$$4800.00
Diana	$$$4200.00
Nancy	$$12000.00
Daniel	$$$9000.00

36. Write a query to display the employees with their code, first name, last name and hire date who hired either on seventh day of any month or seventh month in any year

SELECT employee_id,first_name,last_name,hire_date FROM employees

WHERE POSITION("07" IN DATE_FORMAT(hire_date, '%d %m'))>0;



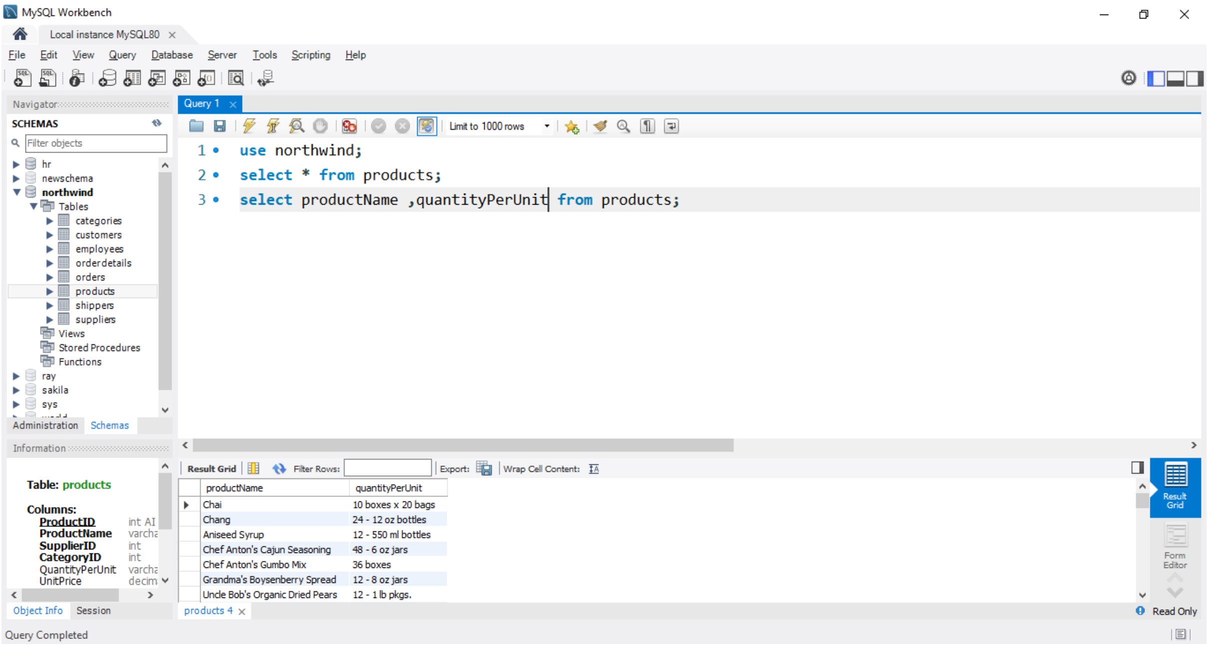
```
select * from employees;
SELECT employee_id,first_name,last_name,hire_date
FROM employees
WHERE POSITION("07" IN DATE_FORMAT(hire_date, '%d %m'))>0;
```

employee_id	first_name	last_name	hire_date
107	Diana	Lorentz	1999-02-07
112	Jose Manuel	Urman	1998-03-07
113	Luis	Popp	1999-12-07
114	Den	Raphaely	1994-12-07
117	Sigal	Tobias	1997-07-24
120	Matthew	Weiss	1996-07-18
125	Julia	Nayer	1997-07-16
137	Renske	Ladwig	1995-07-14
144	Peter	Vargas	1998-07-09
187	Anthony	Cabrio	1999-02-07
190	Timothy	Gates	1998-07-11
194	Samuel	McCain	1998-07-01
203	Susan	Mavris	1994-06-07

Northwind Database Exercises-

1. Write a query to get Product name and quantity/unit

select productName ,quantityPerUnit from products;



```
use northwind;
select * from products;
select productName ,quantityPerUnit from products;
```

Table: products

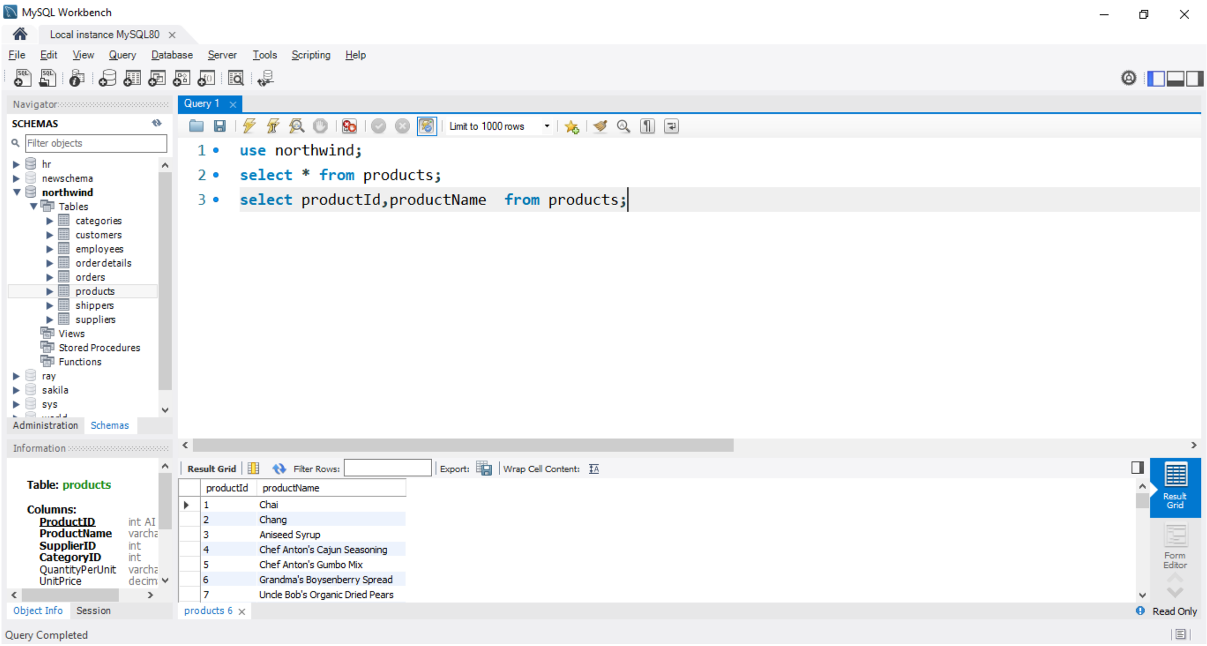
Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

productName	quantityPerUnit
Chai	10 boxes x 20 bags
Chang	24 - 12 oz bottles
Aniseed Syrup	12 - 550 ml bottles
Chef Anton's Cajun Seasoning	48 - 6 oz jars
Chef Anton's Gumbo Mix	36 boxes
Grandma's Boysenberry Spread	12 - 8 oz jars
Uncle Bob's Organic Dried Pears	12 - 1 lb pkgs.

Query Completed

2. Write a query to get current Product list (Product ID and name)

select productId,productName from products;



```
use northwind;
select * from products;
select productId,productName  from products;
```

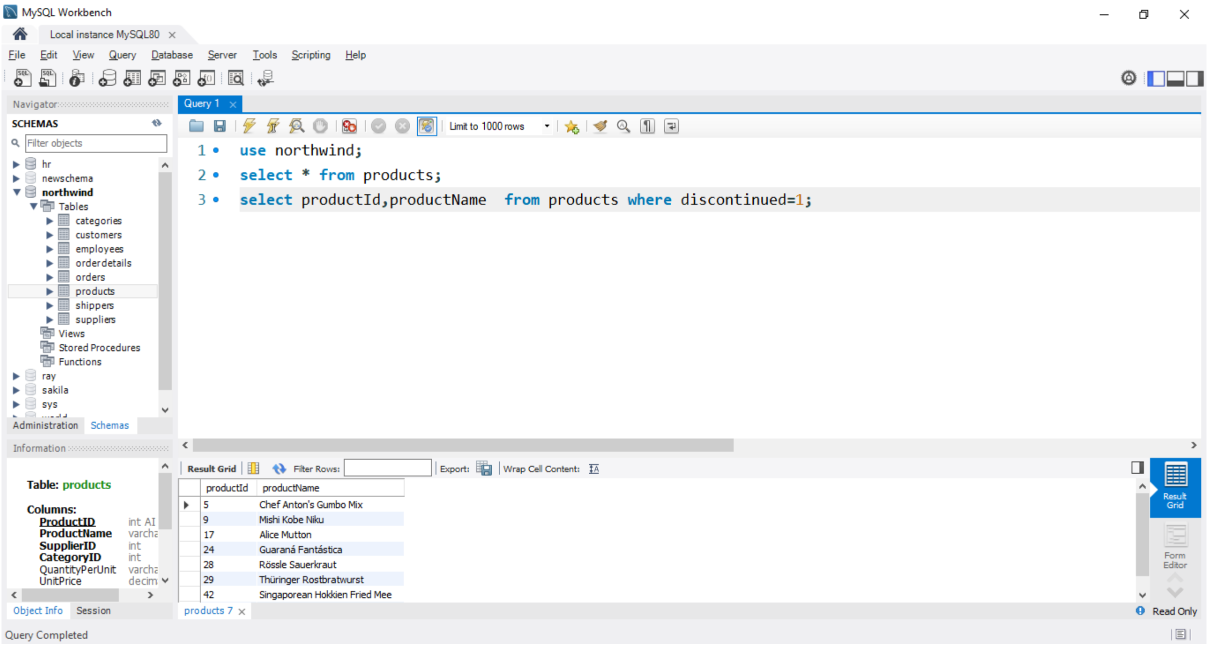
Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

productId	productName
1	Chai
2	Chang
3	Aniseed Syrup
4	Chef Anton's Cajun Seasoning
5	Chef Anton's Gumbo Mix
6	Grandma's Boysenberry Spread
7	Uncle Bob's Organic Dried Pears

Query Completed

3. Write a query to get discontinued Product list (Product ID and name)
   select productId,productName from products where discontinued=1;



```
use northwind;
select * from products;
select productId,productName  from products where discontinued=1;
```

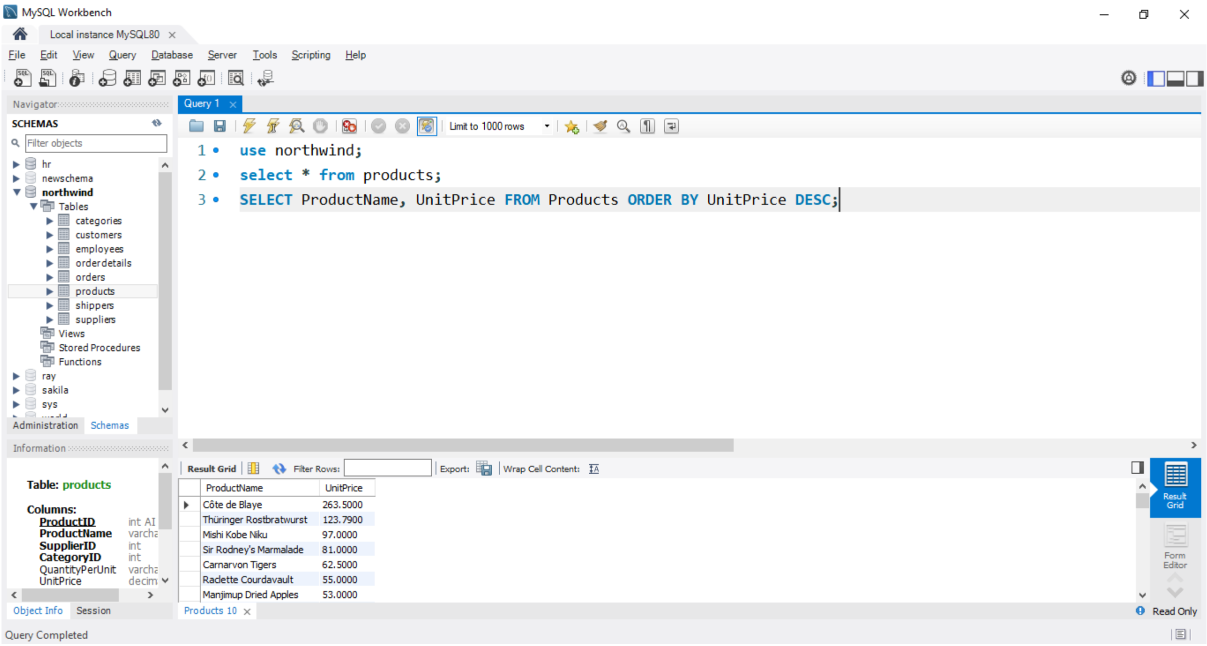
Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

productId	productName
5	Chef Anton's Gumbo Mix
9	Mishi Kobe Niku
17	Alice Mutton
24	Guaraná Fantástica
28	Rössle Sauerkraut
29	Thüringer Rostbratwurst
42	Singaporean Hokkien Fried Mee

Query Completed

4. Write a query to get most expense and least expensive Product list (name and unit price)
   SELECT ProductName, UnitPrice FROM Products ORDER BY UnitPrice DESC;



```
use northwind;
select * from products;
SELECT ProductName, UnitPrice FROM Products ORDER BY UnitPrice DESC;
```

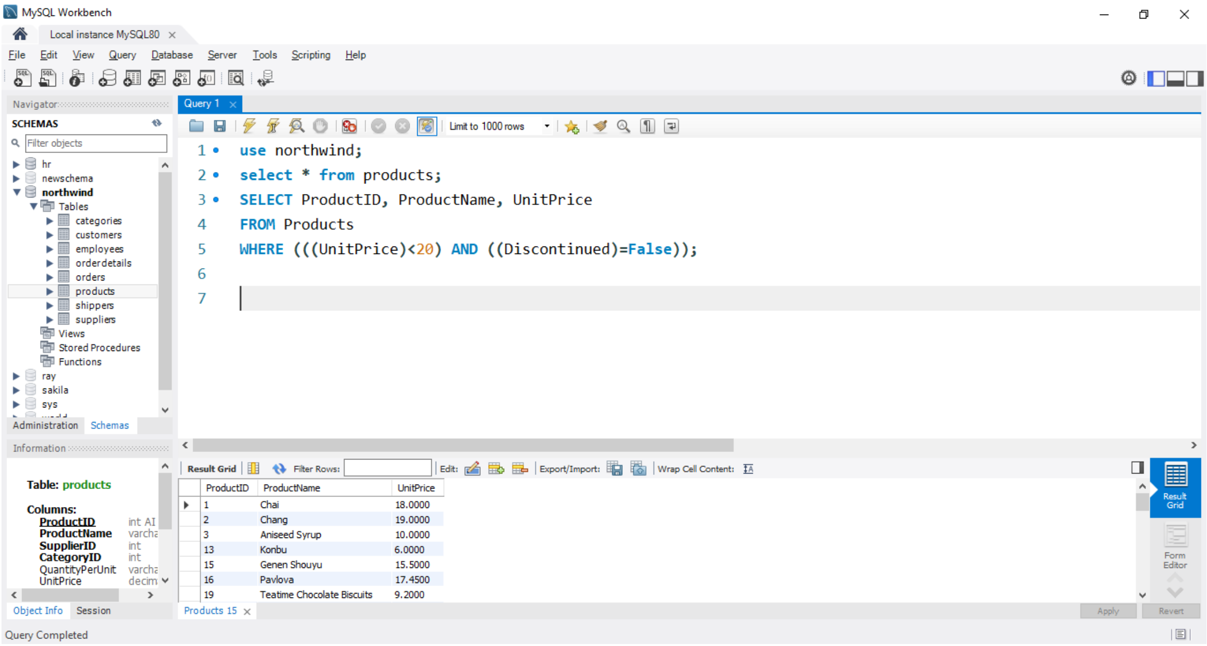
Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

ProductName	UnitPrice
Côte de Blaye	263.5000
Thüringer Rostbratwurst	123.7900
Mishi Kobe Niku	97.0000
Sir Rodney's Marmalade	81.0000
Carnarvon Tigers	62.5000
Raclette Courdavault	55.0000
Manjimup Dried Apples	53.0000

Query Completed

5. Write a query to get Product list (id, name, unit price) where current products cost less than $20
SELECT ProductID, ProductName, UnitPrice FROM Products
WHERE (((UnitPrice)<20) AND ((Discontinued)=False));



```
use northwind;
select * from products;
SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE (((UnitPrice)<20) AND ((Discontinued)=False));
```

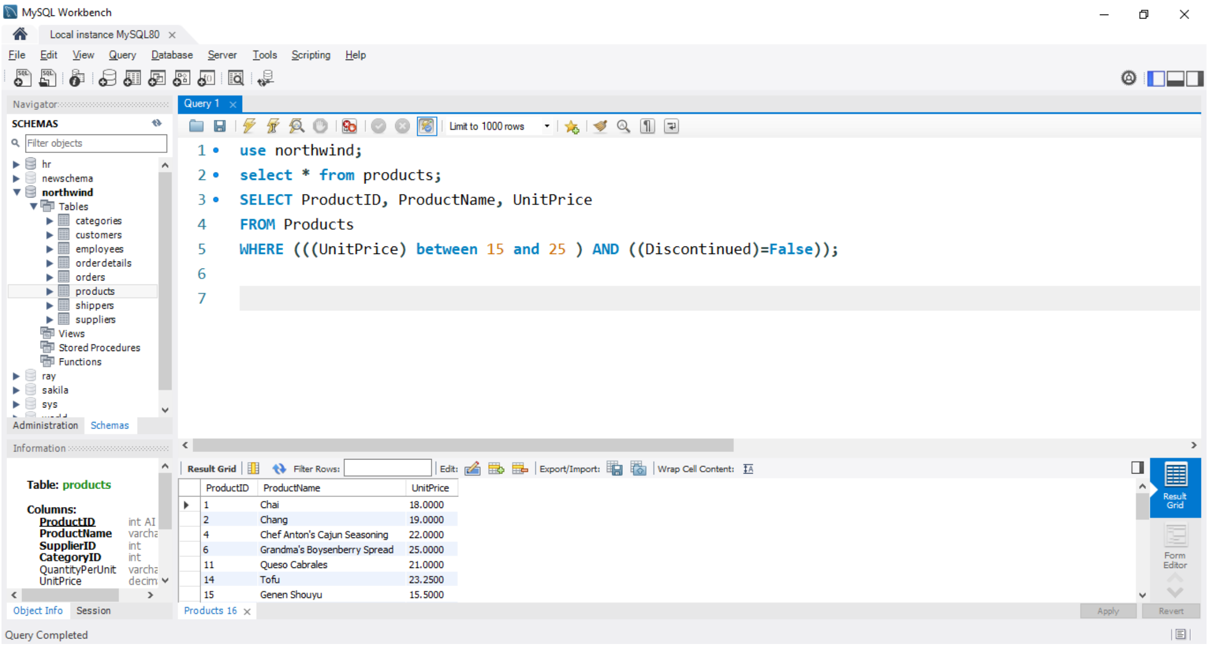
Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

ProductID	ProductName	UnitPrice
1	Chai	18.0000
2	Chang	19.0000
3	Aniseed Syrup	10.0000
13	Konbu	6.0000
15	Genen Shouyu	15.5000
16	Pavlova	17.4500
19	Teatime Chocolate Biscuits	9.2000

Query Completed

6. Write a query to get Product list (id, name, unit price) where products cost between $15 and $25
SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE (((UnitPrice) between 15 and 25) AND ((Discontinued)=False));



```
use northwind;
select * from products;
SELECT ProductID, ProductName, UnitPrice
FROM Products
WHERE (((UnitPrice) between 15 and 25 ) AND ((Discontinued)=False));
```

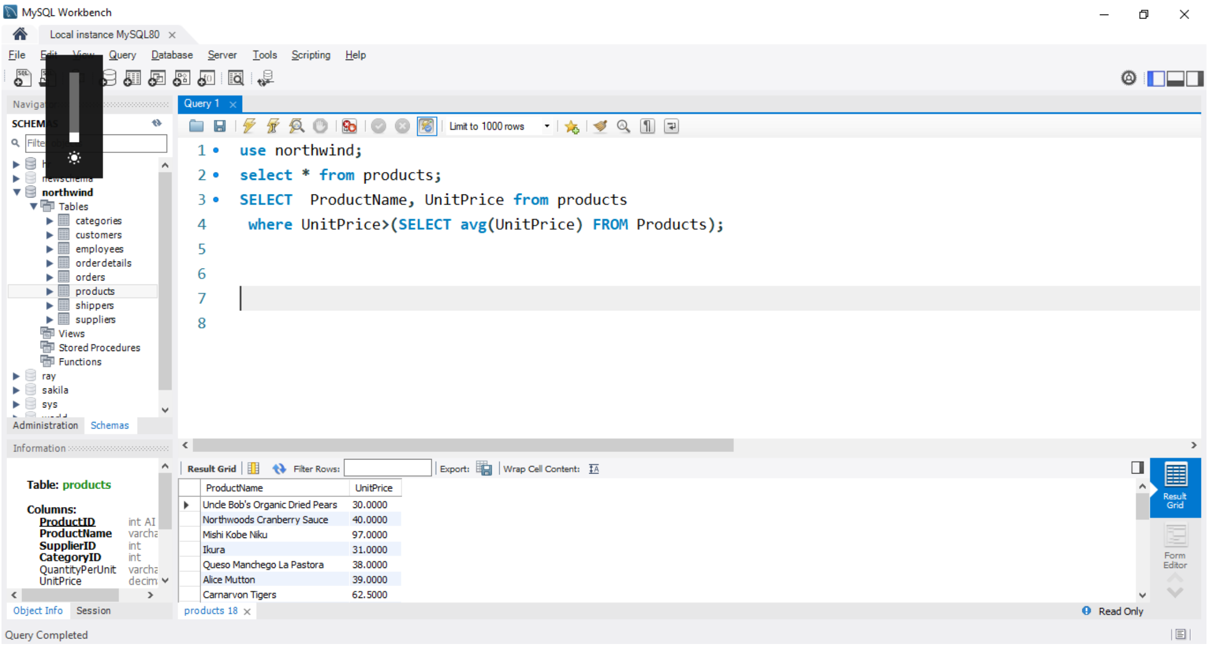
Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

ProductID	ProductName	UnitPrice
1	Chai	18.0000
2	Chang	19.0000
4	Chef Anton's Cajun Seasoning	22.0000
6	Grandma's Boysenberry Spread	25.0000
11	Queso Cabrales	21.0000
14	Tofu	23.2500
15	Genen Shouyu	15.5000

Query Completed

7. Write a query to get Product list (name, unit price) of above average price.
   select * from products;
   SELECT ProductName, UnitPrice from products
    where UnitPrice>(SELECT avg(UnitPrice) FROM Products);



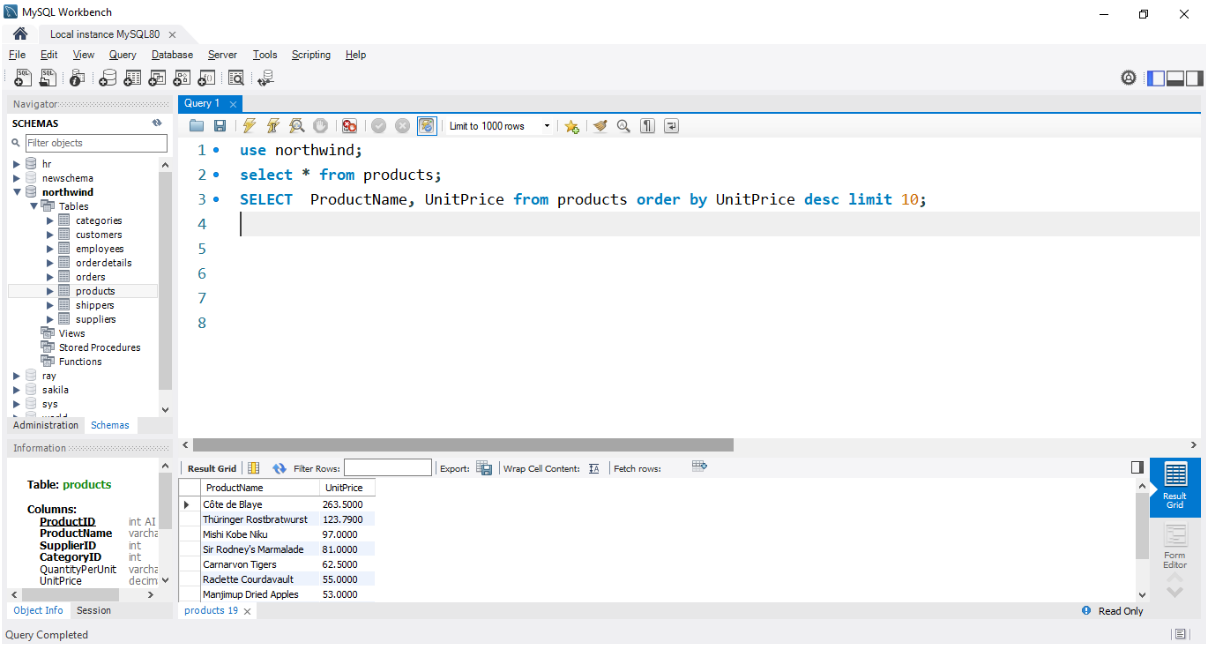
```
use northwind;
select * from products;
SELECT  ProductName, UnitPrice from products
 where UnitPrice>(SELECT avg(UnitPrice) FROM Products);
```

Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

ProductName	UnitPrice
Uncle Bob's Organic Dried Pears	30.0000
Northwoods Cranberry Sauce	40.0000
Mishi Kobe Niku	97.0000
Ikura	31.0000
Queso Manchego La Pastora	38.0000
Alice Mutton	39.0000
Carnarvon Tigers	62.5000

8. Write a query to get Product list (name, unit price) of ten most expensive products
   SELECT ProductName, UnitPrice from products order by UnitPrice desc limit 10;



```
use northwind;
select * from products;
SELECT  ProductName, UnitPrice from products order by UnitPrice desc limit 10;
```

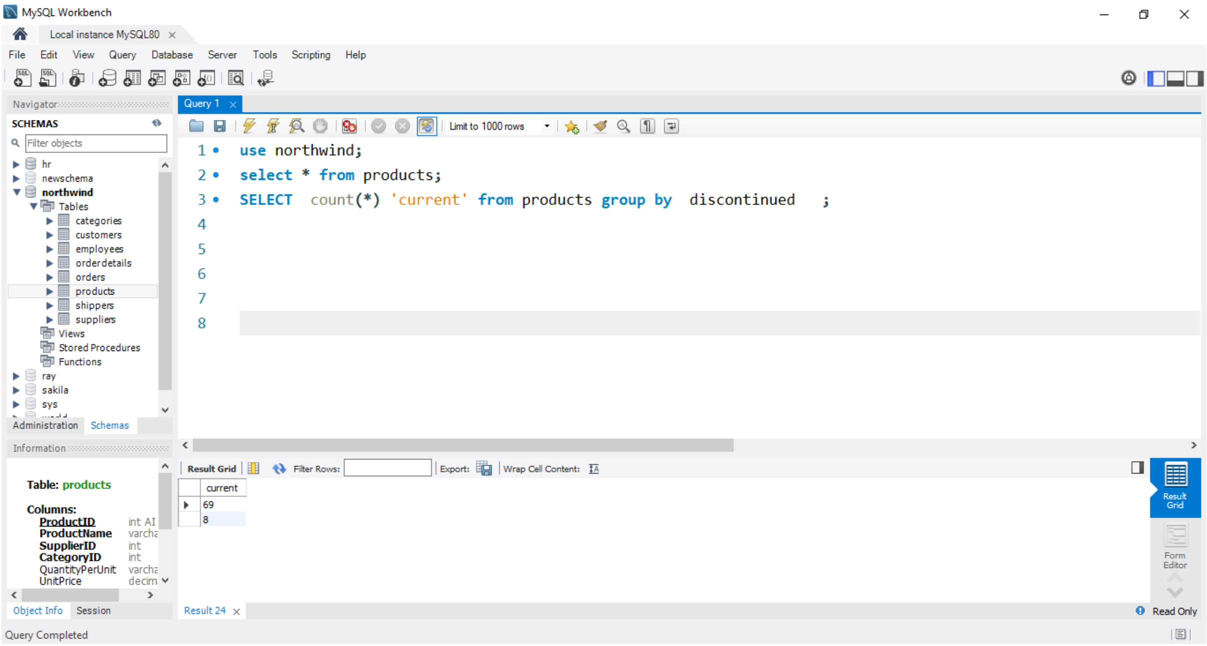
Table: products

Columns:
ProductID int AI
ProductName varcha
SupplierID int
CategoryID int
QuantityPerUnit varcha
UnitPrice decim

ProductName	UnitPrice
Côte de Blaye	263.5000
Thüringer Rostbratwurst	123.7900
Mishi Kobe Niku	97.0000
Sir Rodney's Marmalade	81.0000
Carnarvon Tigers	62.5000
Raclette Courdavault	55.0000
Manjimup Dried Apples	53.0000

9. Write a query to count current and discontinued products

SELECT count(*) 'current' from products group by discontinued   ;



```
use northwind;
select * from products;
SELECT  count(*) 'current' from products group by  discontinued   ;
```

current
69
8

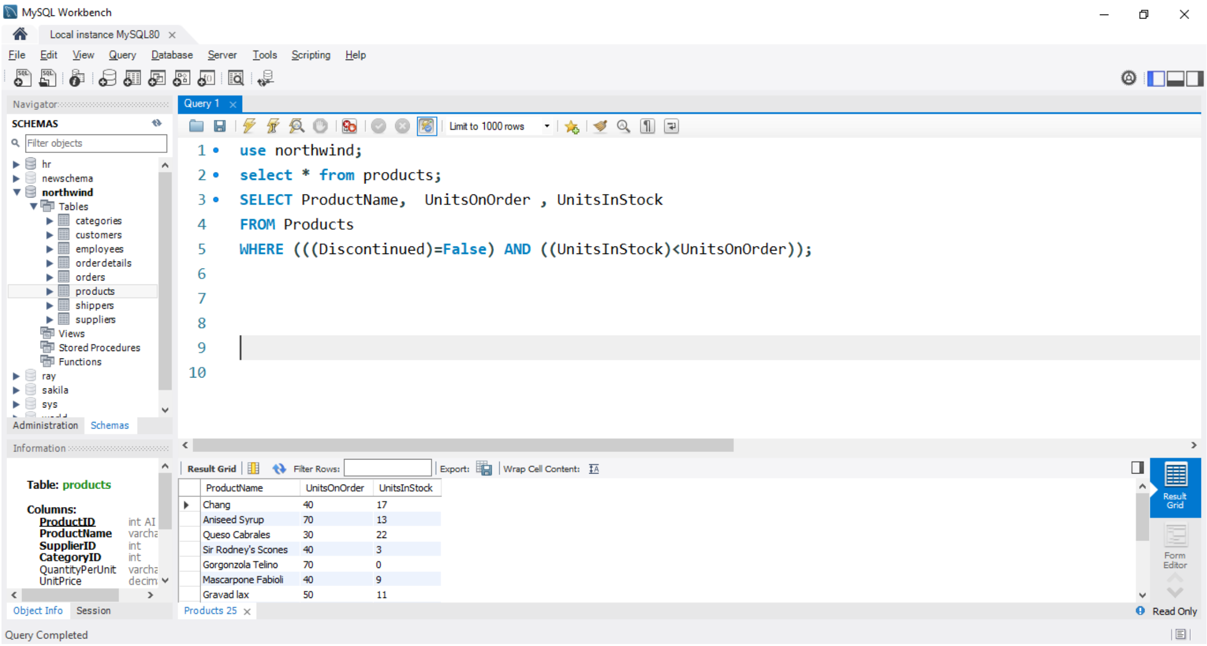
Query Completed

10. Write a query to get Product list (name, units on order , units in stock) of stock is less than the quantity on order

SELECT ProductName, UnitsOnOrder , UnitsInStock

FROM Products

WHERE (((Discontinued)=False) AND ((UnitsInStock)<UnitsOnOrder));



```
use northwind;
select * from products;
SELECT ProductName,  UnitsOnOrder , UnitsInStock
FROM Products
WHERE (((Discontinued)=False) AND ((UnitsInStock)<UnitsOnOrder));
```

ProductName	UnitsOnOrder	UnitsInStock
Chang	40	17
Aniseed Syrup	70	13
Queso Cabrales	30	22
Sir Rodney's Scones	40	3
Gorgonzola Telino	70	0
Mascarpone Fabioli	40	9
Gravad lax	50	11

Query Completed