SQL ASSIGNMENTS

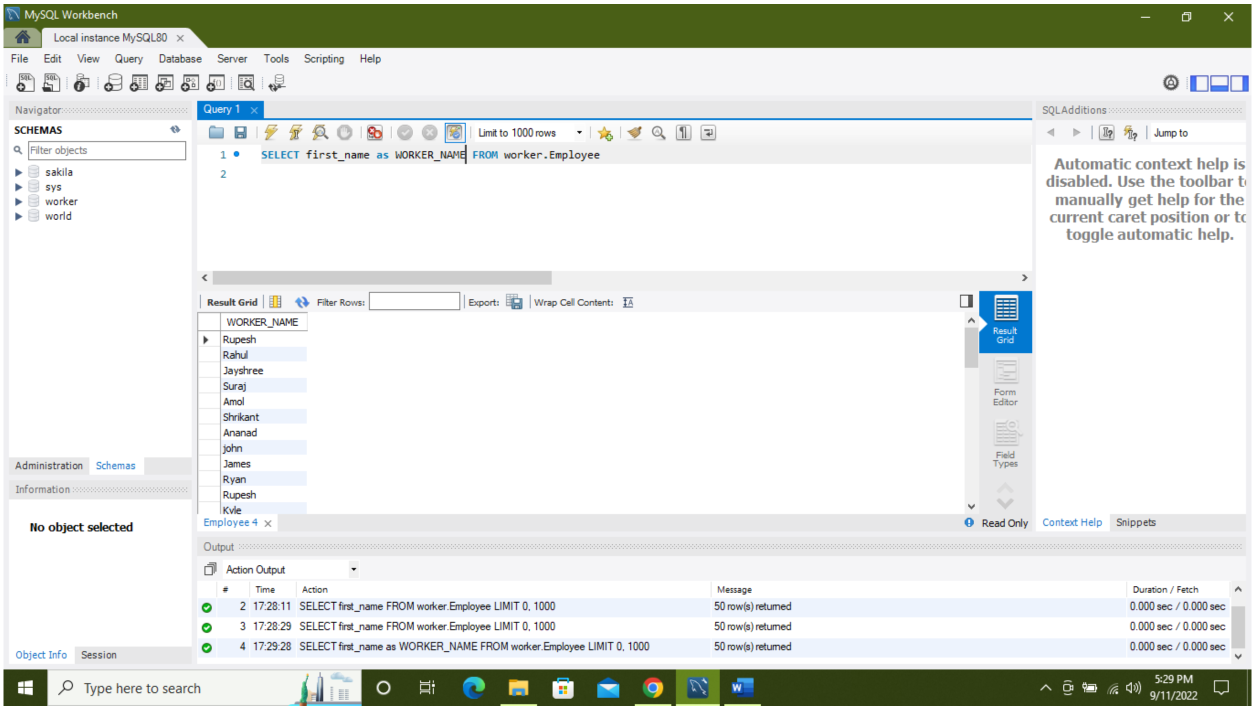
BY (RUPESH.MARATHE)

BATCH -E3(DATA ENGINEERING)

Create a database worker that should contain first name, last name email, department, salary, Join Date with 50 employees.

1) Write an SQL query to fetch “FIRST_NAME” from the Worker table using the alias name as <WORKER_NAME>.

```
SELECT first_name as WORKER_NAME FROM worker.Employee
```



```
SELECT first_name as WORKER_NAME FROM worker.Employee
```

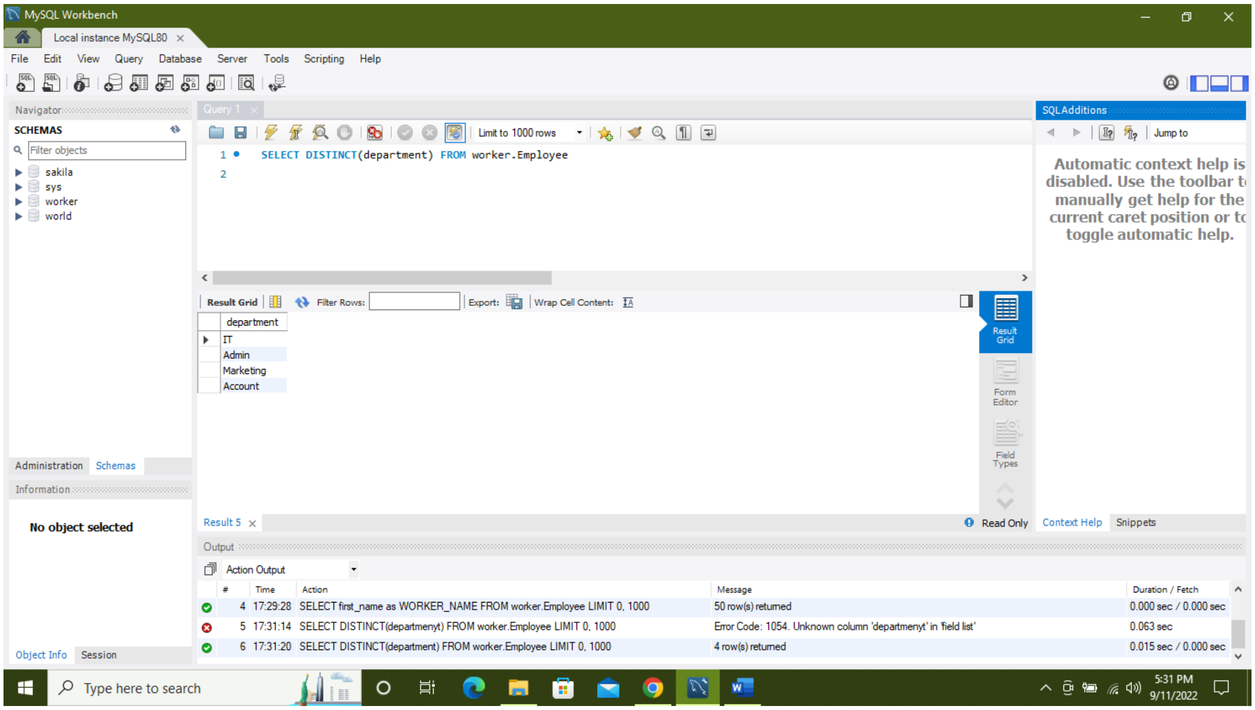
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.

WORKER_NAME
Rupesh
Rahul
Jayshree
Suraj
Amol
Shrikant
Ananad
john
James
Ryan
Rupesh
Kyle

#	Time	Action	Message	Duration / Fetch
2	17:28:11	SELECT first_name FROM worker.Employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
3	17:28:29	SELECT first_name FROM worker.Employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
4	17:29:28	SELECT first_name as WORKER_NAME FROM worker.Employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec

2) Write an SQL query to fetch unique values of DEPARTMENT from the Worker table.

SELECT DISTINCT(department) FROM worker.Employee



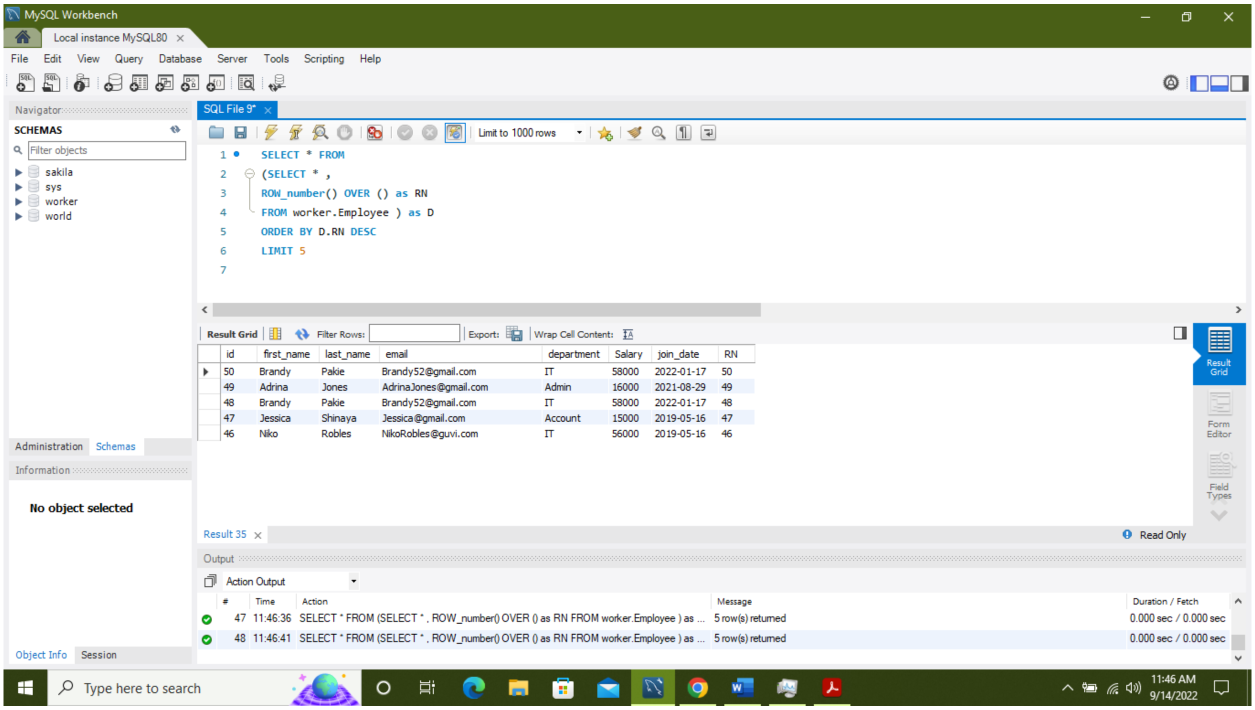
```
SELECT DISTINCT(department) FROM worker.Employee
```

department
IT
Admin
Marketing
Account

```
#  Time      Action                                                          Message                                                      Duration / Fetch
4  17:29:28  SELECT first_name as WORKER_NAME FROM worker.Employee LIMIT 0, 1000   50 row(s) returned                                           0.000 sec / 0.000 sec
5  17:31:14  SELECT DISTINCT(departmenyt) FROM worker.Employee LIMIT 0, 1000     Error Code: 1054. Unknown column 'departmenyt' in 'field list'  0.063 sec
6  17:31:20  SELECT DISTINCT(department) FROM worker.Employee LIMIT 0, 1000      4 row(s) returned                                            0.015 sec / 0.000 sec
```

3) Write an SQL query to show the last 5 records from a table.

```
SELECT * FROM
(SELECT * ,
ROW_number() OVER () as RN
FROM worker.Employee ) as D
ORDER BY D.RN DESC
LIMIT 5
```



```
SELECT * FROM
(SELECT * ,
ROW_number() OVER () as RN
FROM worker.Employee ) as D
ORDER BY D.RN DESC
LIMIT 5
```

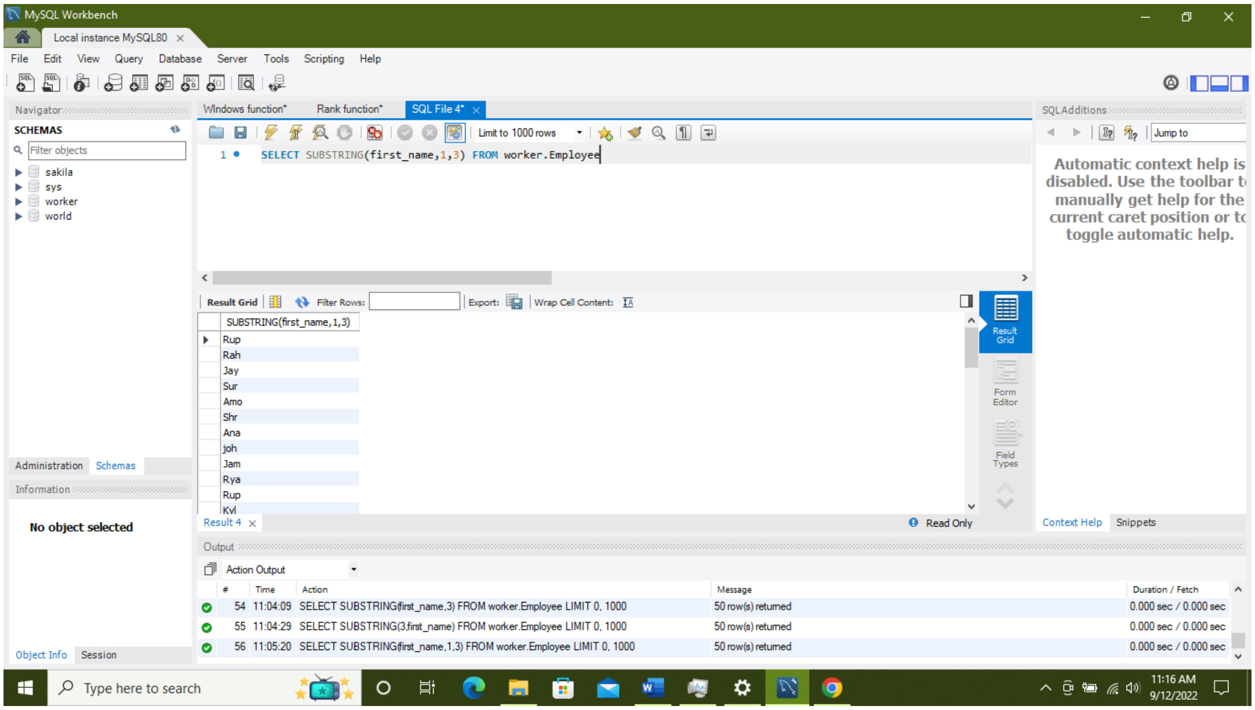
id	first_name	last_name	email	department	Salary	join_date	RN
50	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	50
49	Adrina	Jones	AdrinaJones@gmail.com	Admin	16000	2021-08-29	49
48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	48
47	Jessica	Shinaya	Jessica@gmail.com	Account	15000	2019-05-16	47
46	Niko	Robles	NikoRobles@guvi.com	IT	56000	2019-05-16	46

#	Time	Action	Message	Duration / Fetch
47	11:46:36	SELECT * FROM (SELECT * , ROW_number() OVER () as RN FROM worker.Employee) as ...	5 row(s) returned	0.000 sec / 0.000 sec
48	11:46:41	SELECT * FROM (SELECT * , ROW_number() OVER () as RN FROM worker.Employee) as ...	5 row(s) returned	0.000 sec / 0.000 sec

Task-2

1. Write an SQL query to print the first three characters of FIRST_NAME from Worker

SELECT SUBSTRING(first_name,1,3) FROM worker.Employee



```
SELECT SUBSTRING(first_name,1,3) FROM worker.Employee
```

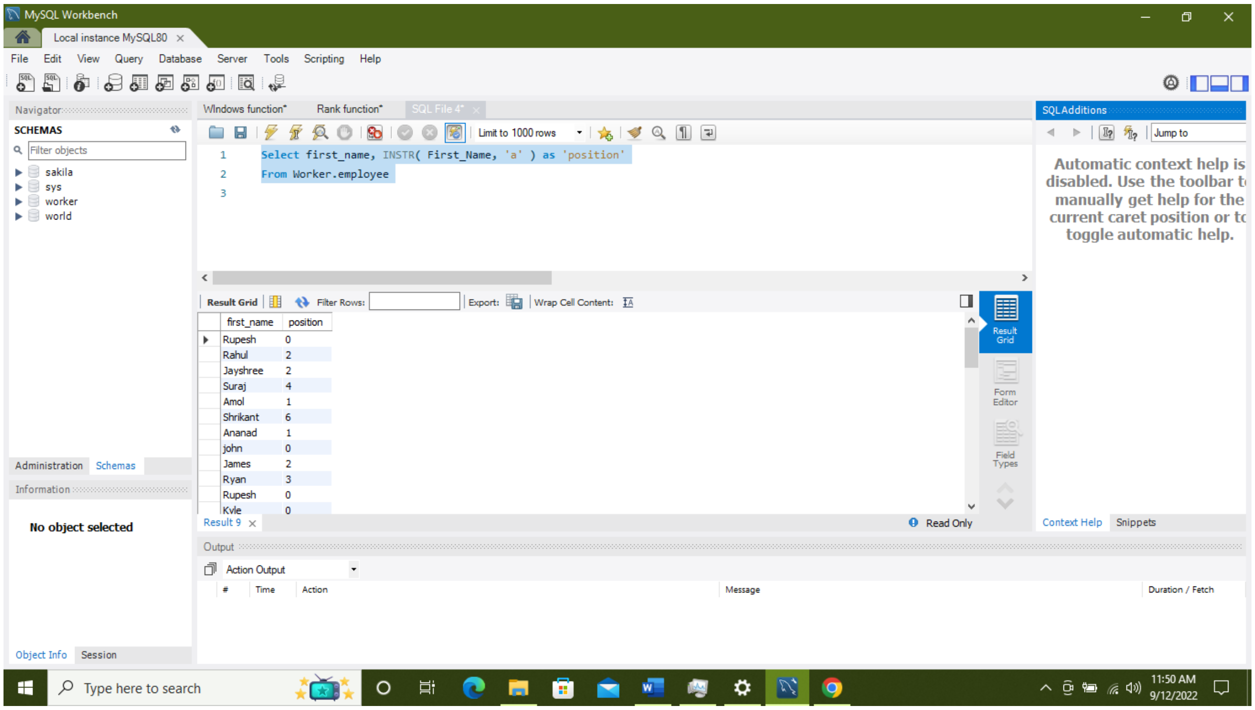
SUBSTRING(first_name,1,3)
Rup
Rah
Jay
Sur
Amo
Shr
Ana
joh
Jam
Rya
Rup
Kvl

```
#   Time      Action                                                       Message             Duration / Fetch
54  11:04:09  SELECT SUBSTRING(first_name,3) FROM worker.Employee LIMIT 0, 1000    50 row(s) returned  0.000 sec / 0.000 sec
55  11:04:29  SELECT SUBSTRING(3,first_name) FROM worker.Employee LIMIT 0, 1000    50 row(s) returned  0.000 sec / 0.000 sec
56  11:05:20  SELECT SUBSTRING(first_name,1,3) FROM worker.Employee LIMIT 0, 1000  50 row(s) returned  0.000 sec / 0.000 sec
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

2) Write an SQL query to find the position of the alphabet ('a') in the first name

```
Select first_name, INSTR( First_Name, 'a' ) as 'position'

From Worker.employee
```



```
Select first_name, INSTR( First_Name, 'a' ) as 'position'
From Worker.employee
```

first_name	position
Rupesh	0
Rahul	2
Jayshree	2
Suraj	4
Amol	1
Shrikant	6
Ananad	1
john	0
James	2
Ryan	3
Rupesh	0
Kyle	0

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.

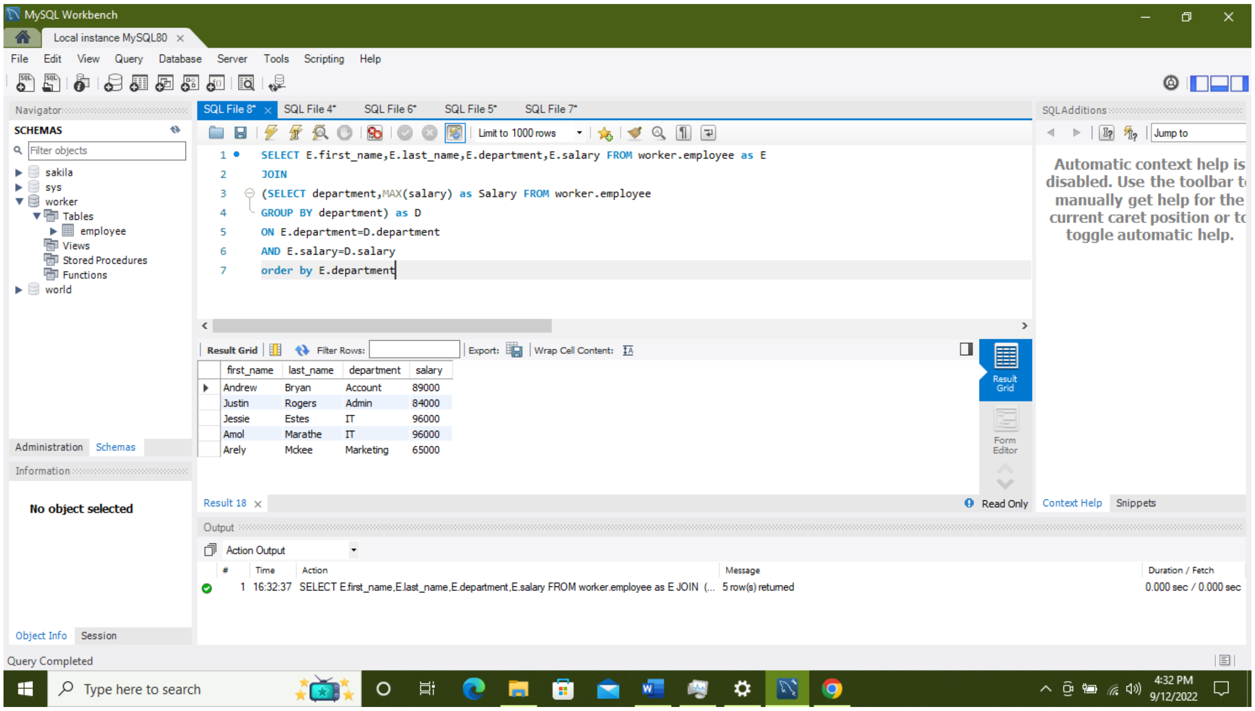
#	Time	Action	Message	Duration / Fetch

3) Write an SQL query to print the name of employees who have the highest salary in each department

```
SELECT E.first_name,E.last_name,E.department,E.salary FROM worker.employee as E

JOIN

(SELECT department,MAX(salary) as Salary FROM worker.employee

GROUP BY department) as D

ON E.department=D.department

AND E.salary=D.salary

order by E.department
```

or

```
SELECT D.first_name,D.last_name,D.department,D.salary FROM

(SELECT first_name,last_name,department,salary ,

dense_rank() OVER (partition by department order by salary DESC) as Ranks

FROM worker.Employee) as D

WHERE Ranks=1
```



```
SELECT E.first_name,E.last_name,E.department,E.salary FROM worker.employee as E
JOIN
(SELECT department,MAX(salary) as Salary FROM worker.employee
GROUP BY department) as D
ON E.department=D.department
AND E.salary=D.salary
order by E.department
```

first_name	last_name	department	salary
Andrew	Bryan	Account	89000
Justin	Rogers	Admin	84000
Jessie	Estes	IT	96000
Amol	Marathe	IT	96000
Arely	Mckee	Marketing	65000

```
#  Time      Action                                                                          Message            Duration / Fetch
1  16:32:37  SELECT E.first_name,E.last_name,E.department,E.salary FROM worker.employee as E JOIN  (...  5 row(s) returned  0.000 sec / 0.000 sec
```

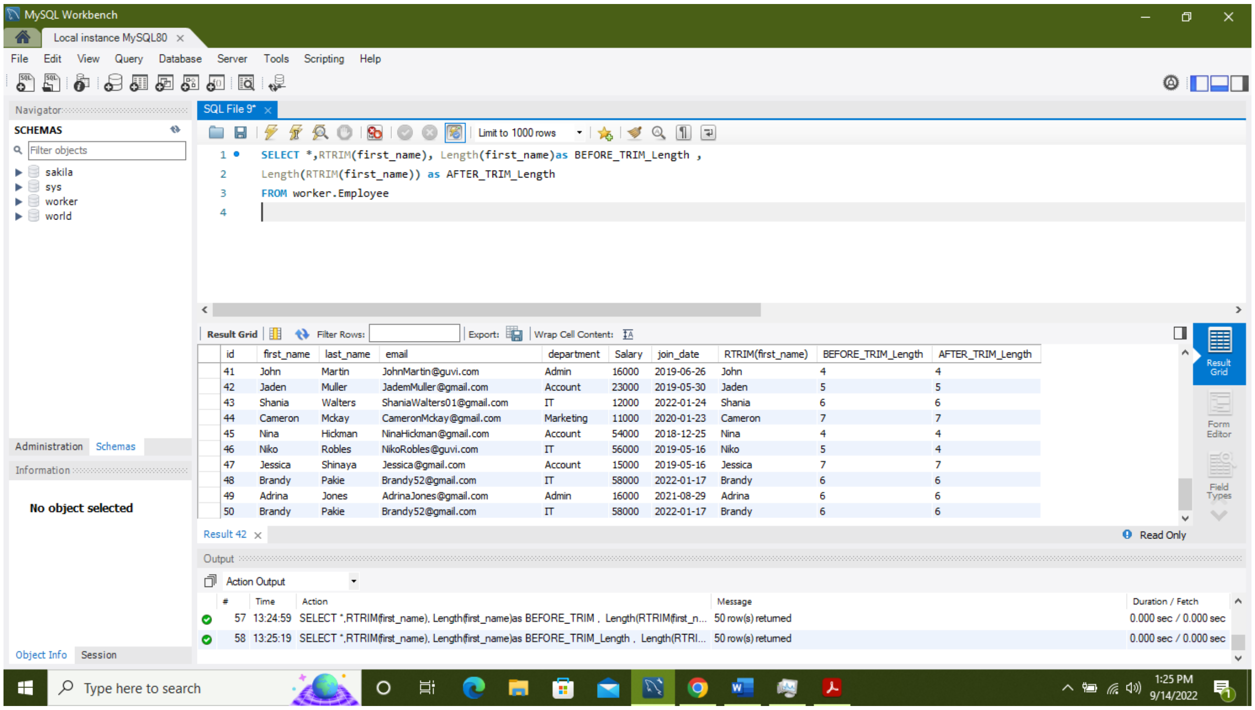
Task-3

1. Write an SQL query to print the FIRST_NAME from the Worker table after removing white spaces from the right side.

SELECT *,RTRIM(first_name), Length(first_name)as BEFORE_TRIM_Length ,

Length(RTRIM(first_name)) as AFTER_TRIM_Length

FROM worker.Employee



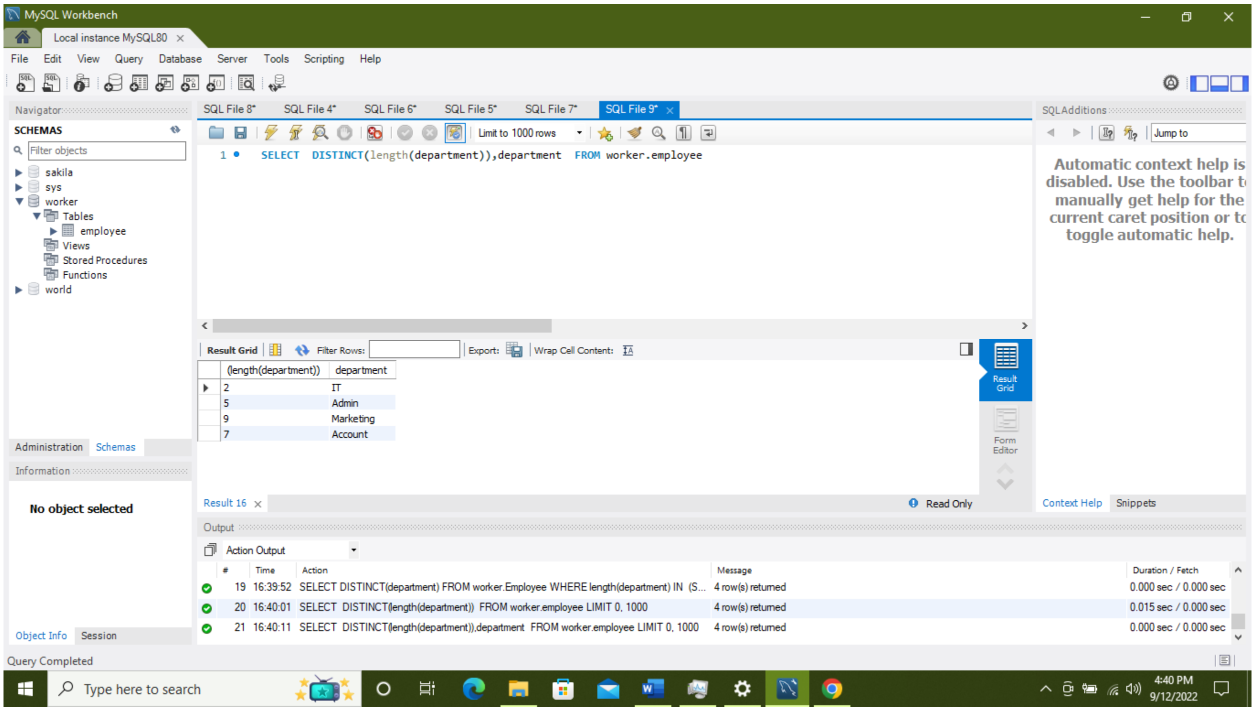
```
SELECT *,RTRIM(first_name), Length(first_name)as BEFORE_TRIM_Length ,
Length(RTRIM(first_name)) as AFTER_TRIM_Length
FROM worker.Employee
```

id	first_name	last_name	email	department	Salary	join_date	RTRIM(first_name)	BEFORE_TRIM_Length	AFTER_TRIM_Length
41	John	Martin	JohnMartin@guvi.com	Admin	16000	2019-06-26	John	4	4
42	Jaden	Muller	JademMuller@gmail.com	Account	23000	2019-05-30	Jaden	5	5
43	Shania	Walters	ShaniaWalters01@gmail.com	IT	12000	2022-01-24	Shania	6	6
44	Cameron	Mckay	CameronMckay@gmail.com	Marketing	11000	2020-01-23	Cameron	7	7
45	Nina	Hickman	NinaHickman@gmail.com	Account	54000	2018-12-25	Nina	4	4
46	Niko	Robles	NikoRobles@guvi.com	IT	56000	2019-05-16	Niko	5	4
47	Jessica	Shinaya	Jessica@gmail.com	Account	15000	2019-05-16	Jessica	7	7
48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	Brandy	6	6
49	Adrina	Jones	AdrinaJones@gmail.com	Admin	16000	2021-08-29	Adrina	6	6
50	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	Brandy	6	6

#	Time	Action	Message	Duration / Fetch
57	13:24:59	SELECT *,RTRIM(first_name), Length(first_name)as BEFORE_TRIM , Length(RTRIM(first_n...	50 row(s) returned	0.000 sec / 0.000 sec
58	13:25:19	SELECT *,RTRIM(first_name), Length(first_name)as BEFORE_TRIM_Length , Length(RTRI...	50 row(s) returned	0.000 sec / 0.000 sec

2) Write an SQL query that fetches the unique values of DEPARTMENT from the Worker table and prints its length.

SELECT DISTINCT(length(department)),department FROM worker.employee



```
SELECT  DISTINCT(length(department)),department  FROM worker.employee
```

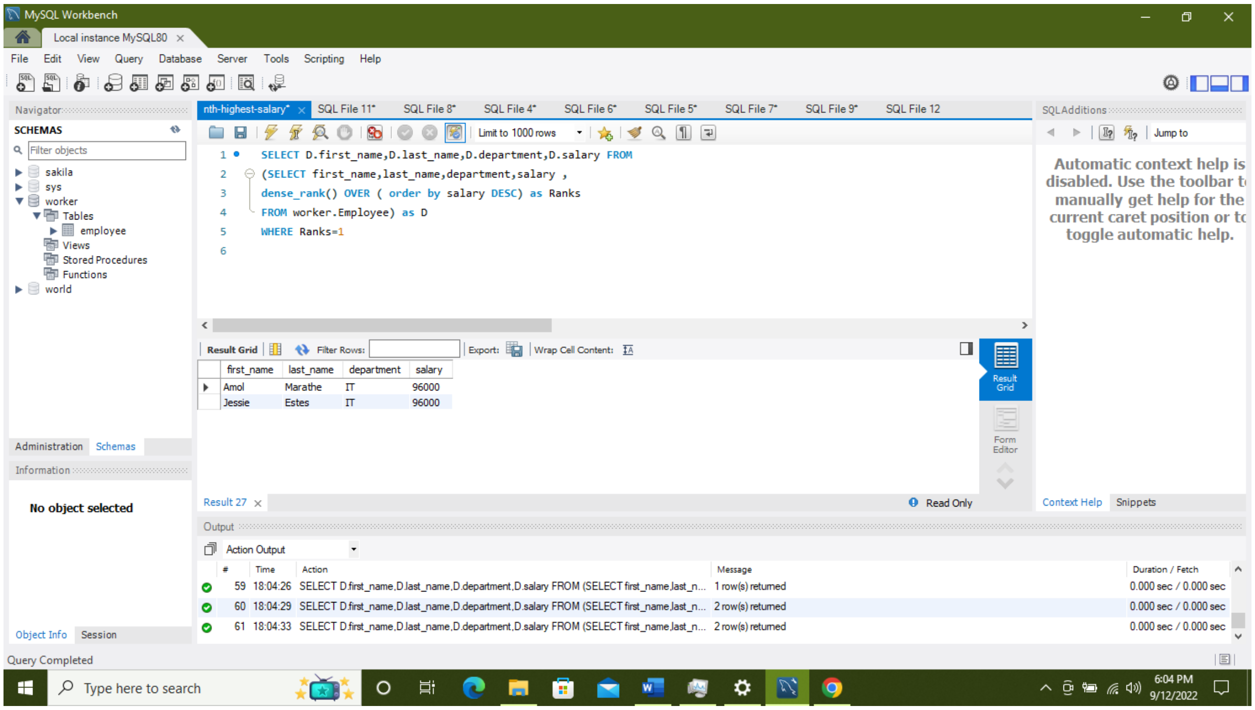
(length(department))	department
2	IT
5	Admin
9	Marketing
7	Account

```
#   Time      Action                                                                          Message              Duration / Fetch
19  16:39:52  SELECT DISTINCT(department) FROM worker.Employee WHERE length(department) IN  (S...  4 row(s) returned    0.000 sec / 0.000 sec
20  16:40:01  SELECT  DISTINCT(length(department))  FROM worker.employee LIMIT 0, 1000            4 row(s) returned    0.015 sec / 0.000 sec
21  16:40:11  SELECT  DISTINCT(length(department)),department  FROM worker.employee LIMIT 0, 1000  4 row(s) returned    0.000 sec / 0.000 sec
```

Query Completed

3) Write an SQL query to fetch nth max salaries from a table

```
SELECT * FROM worker.Employee

WHERE salary =

(SELECT Max(salary) FROM worker.Employee)

OR


SELECT D.first_name,D.last_name,D.department,D.salary FROM

(SELECT first_name,last_name,department,salary ,

dense_rank() OVER (order by salary DESC) as Ranks

FROM worker.Employee) as D

WHERE Ranks=1
```



```
SELECT D.first_name,D.last_name,D.department,D.salary FROM
(SELECT first_name,last_name,department,salary ,
dense_rank() OVER ( order by salary DESC) as Ranks
FROM worker.Employee) as D
WHERE Ranks=1
```

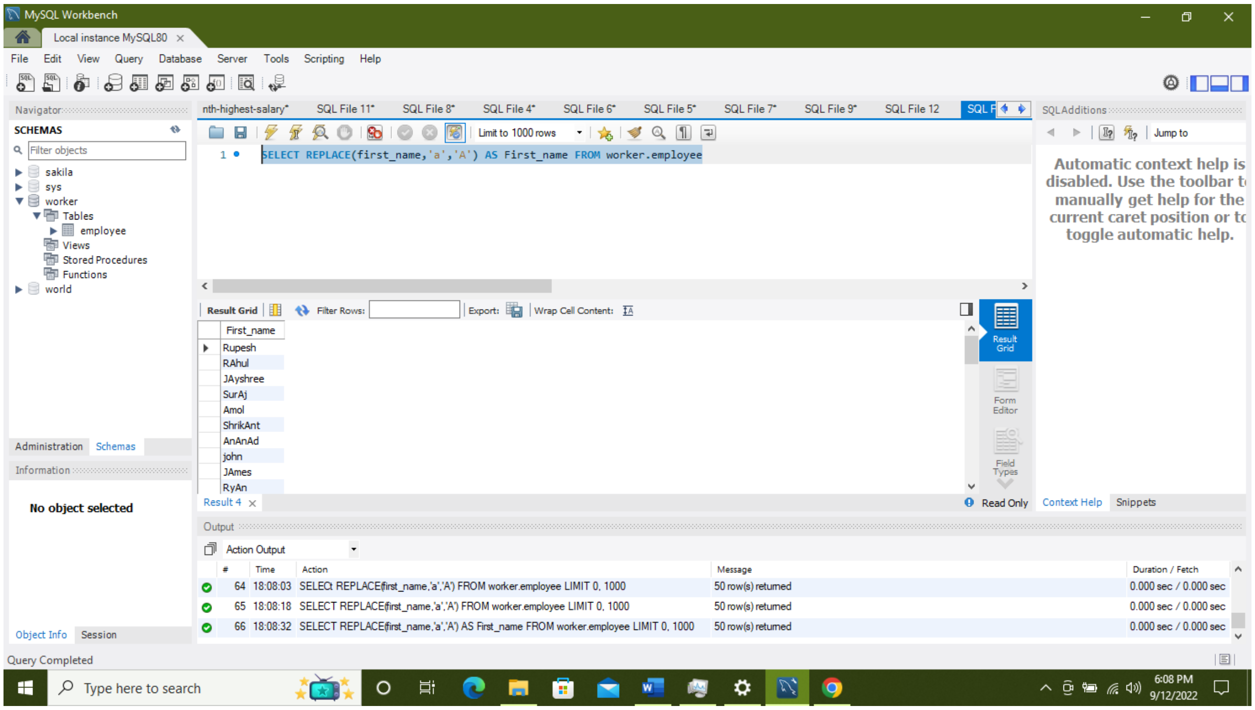
first_name	last_name	department	salary
Amol	Marathe	IT	96000
Jessie	Estes	IT	96000

```
#   Time      Action                                                                          Message             Duration / Fetch
59  18:04:26  SELECT D.first_name,D.last_name,D.department,D.salary FROM (SELECT first_name,last_n...  1 row(s) returned   0.000 sec / 0.000 sec
60  18:04:29  SELECT D.first_name,D.last_name,D.department,D.salary FROM (SELECT first_name,last_n...  2 row(s) returned   0.000 sec / 0.000 sec
61  18:04:33  SELECT D.first_name,D.last_name,D.department,D.salary FROM (SELECT first_name,last_n...  2 row(s) returned   0.000 sec / 0.000 sec
```

Task-4

1. Write an SQL query to print the FIRST_NAME from the Worker table after replacing ‘a’ with ‘A’.

SELECT REPLACE(first_name,'a','A') AS First_name FROM worker.employee



```
SELECT REPLACE(first_name,'a','A') AS First_name FROM worker.employee
```

First_name
Rupesh
RAhul
JAyshree
SurAj
Amol
ShrikAnt
AnAnAd
john
JAmes
RyAn

	#	Time	Action	Message	Duration / Fetch
✓	64	18:08:03	SELECt REPLACE(first_name,'a','A') FROM worker.employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
✓	65	18:08:18	SELECT REPLACE(first_name,'a','A') FROM worker.employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
✓	66	18:08:32	SELECT REPLACE(first_name,'a','A') AS First_name FROM worker.employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec

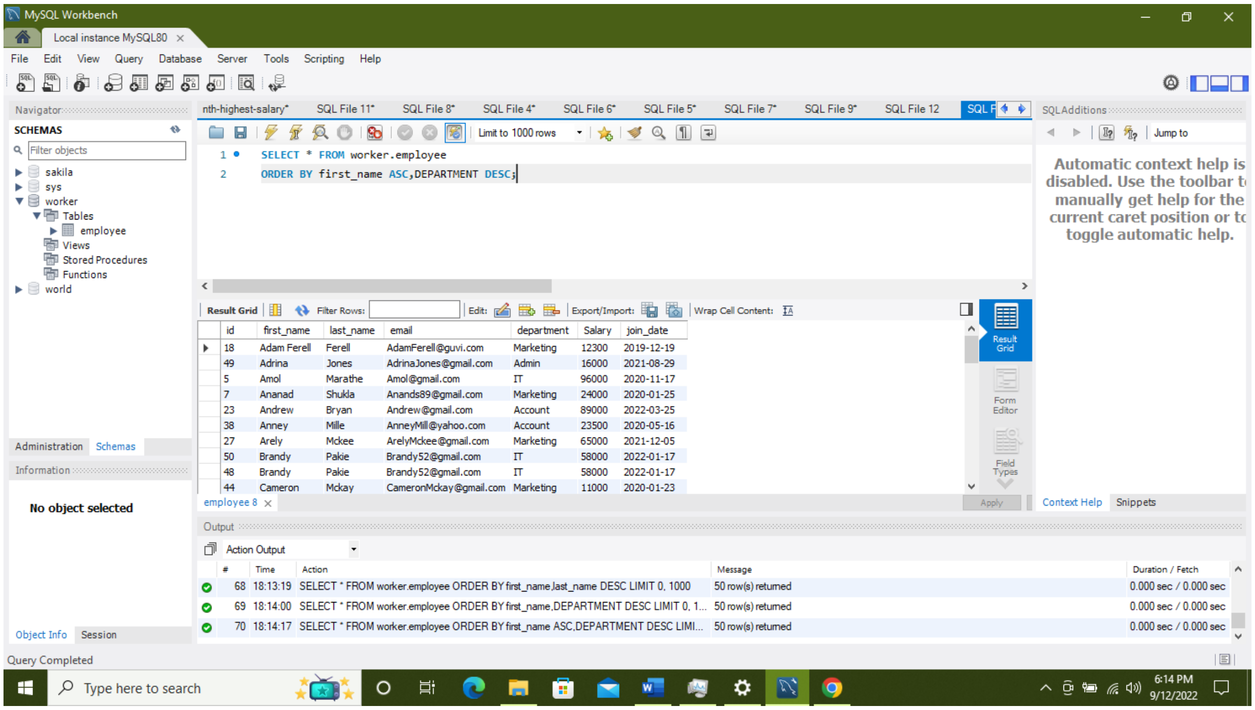
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.

No object selected

Query Completed

2) Write an SQL query to print all Worker details from the Worker table order FIRST_NAME Ascending and DEPARTMENT Descending.

```
SELECT * FROM worker.employee

ORDER BY first_name ASC,DEPARTMENT DESC;
```



```
SELECT * FROM worker.employee
ORDER BY first_name ASC,DEPARTMENT DESC;
```

	id	first_name	last_name	email	department	Salary	join_date
▶	18	Adam Ferell	Ferell	AdamFerell@guvi.com	Marketing	12300	2019-12-19
	49	Adrina	Jones	AdrinaJones@gmail.com	Admin	16000	2021-08-29
	5	Amol	Marathe	Amol@gmail.com	IT	96000	2020-11-17
	7	Ananad	Shukla	Anands89@gmail.com	Marketing	24000	2020-01-25
	23	Andrew	Bryan	Andrew@gmail.com	Account	89000	2022-03-25
	38	Anney	Mille	AnneyMill@yahoo.com	Account	23500	2020-05-16
	27	Arely	Mckee	ArelyMckee@gmail.com	Marketing	65000	2021-12-05
	50	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17
	48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17
	44	Cameron	Mckay	CameronMckay@gmail.com	Marketing	11000	2020-01-23

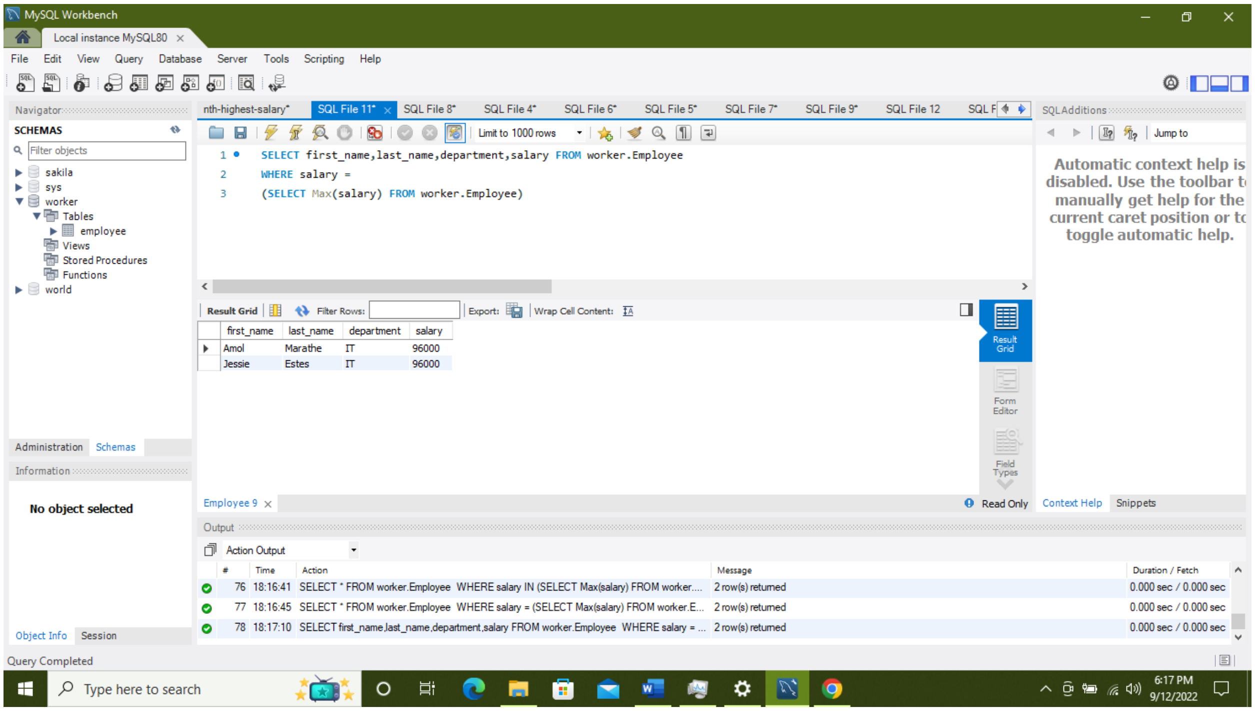
	#	Time	Action	Message	Duration / Fetch
✓	68	18:13:19	SELECT * FROM worker.employee ORDER BY first_name,last_name DESC LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
✓	69	18:14:00	SELECT * FROM worker.employee ORDER BY first_name,DEPARTMENT DESC LIMIT 0, 1...	50 row(s) returned	0.000 sec / 0.000 sec
✓	70	18:14:17	SELECT * FROM worker.employee ORDER BY first_name ASC,DEPARTMENT DESC LIMI...	50 row(s) returned	0.000 sec / 0.000 sec

3) Write an SQL query to fetch the names of workers who earn the highest salary.

SELECT first_name,last_name,department,salary FROM worker.Employee

WHERE salary =

(SELECT Max(salary) FROM worker.Employee)



```
SELECT first_name,last_name,department,salary FROM worker.Employee
WHERE salary =
(SELECT Max(salary) FROM worker.Employee)
```

first_name	last_name	department	salary
Amol	Marathe	IT	96000
Jessie	Estes	IT	96000

```
#   Time      Action                                                                        Message              Duration / Fetch
76  18:16:41  SELECT * FROM worker.Employee  WHERE salary IN (SELECT Max(salary) FROM worker....  2 row(s) returned    0.000 sec / 0.000 sec
77  18:16:45  SELECT * FROM worker.Employee  WHERE salary = (SELECT Max(salary) FROM worker.E...   2 row(s) returned    0.000 sec / 0.000 sec
78  18:17:10  SELECT first_name,last_name,department,salary FROM worker.Employee  WHERE salary = ...  2 row(s) returned    0.000 sec / 0.000 sec
```

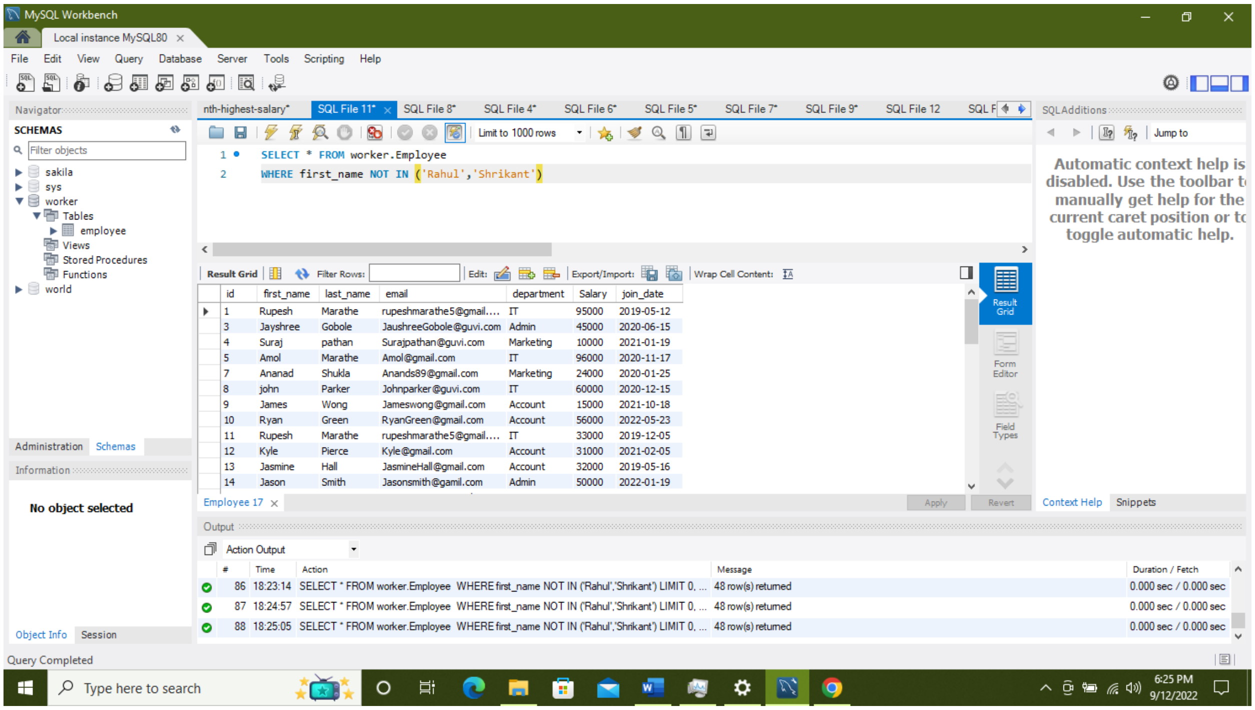
Task-5

1. Write an SQL query to print details of workers excluding first names, “Ramesh” and “Santhosh” from the Worker table.

Note: instead of ‘Ramesh’ and ‘Santosh’ I used the first name for Example is ‘Rahu’l and ‘shrikant’

SELECT * FROM worker.Employee

WHERE first_name NOT IN ('Rahul','Shrikant')



```
SELECT * FROM worker.Employee
WHERE first_name NOT IN ('Rahul','Shrikant')
```

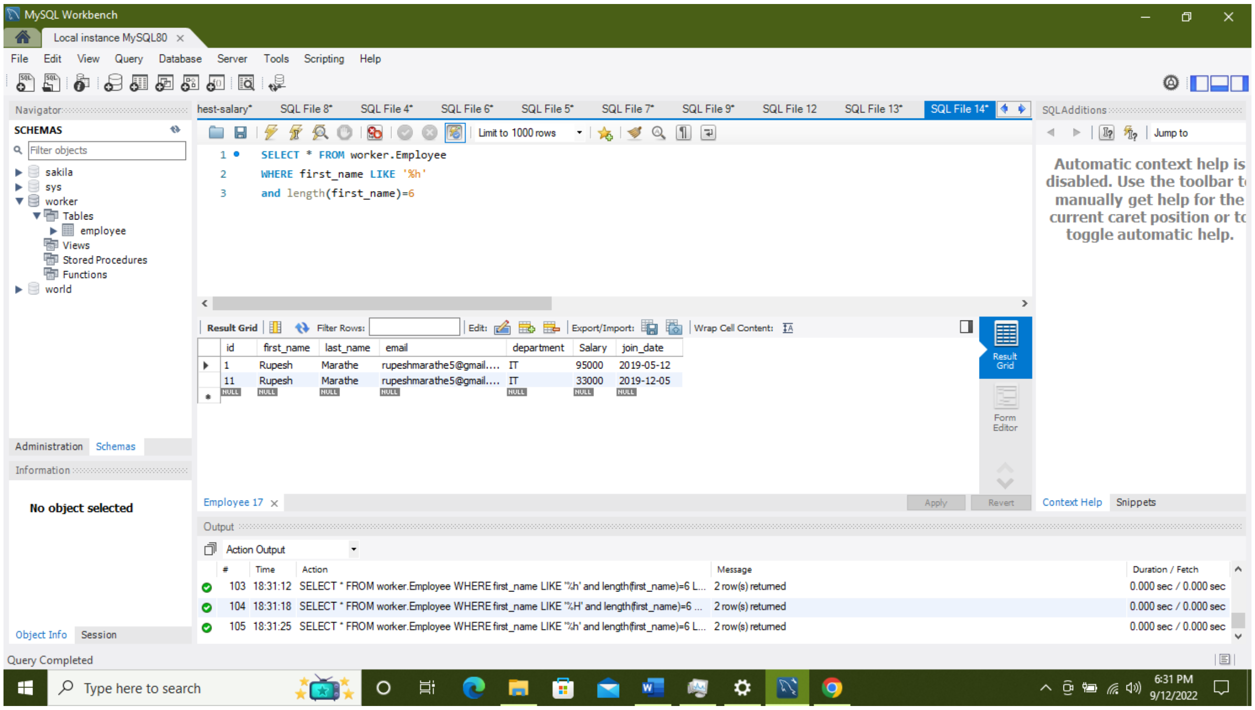
id	first_name	last_name	email	department	Salary	join_date
1	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	95000	2019-05-12
3	Jayshree	Gobole	JaushreeGobole@guvi.com	Admin	45000	2020-06-15
4	Suraj	pathan	Surajpathan@guvi.com	Marketing	10000	2021-01-19
5	Amol	Marathe	Amol@gmail.com	IT	96000	2020-11-17
7	Ananad	Shukla	Anands89@gmail.com	Marketing	24000	2020-01-25
8	john	Parker	Johnparker@guvi.com	IT	60000	2020-12-15
9	James	Wong	Jameswong@gmail.com	Account	15000	2021-10-18
10	Ryan	Green	RyanGreen@gmail.com	Account	56000	2022-05-23
11	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	33000	2019-12-05
12	Kyle	Pierce	Kyle@gmail.com	Account	31000	2021-02-05
13	Jasmine	Hall	JasmineHall@gmail.com	Account	32000	2019-05-16
14	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19

Output

```
#   Time      Action                                                                            Message              Duration / Fetch
86  18:23:14  SELECT * FROM worker.Employee  WHERE first_name NOT IN ('Rahul','Shrikant') LIMIT 0, ...  48 row(s) returned  0.000 sec / 0.000 sec
87  18:24:57  SELECT * FROM worker.Employee  WHERE first_name NOT IN ('Rahul','Shrikant') LIMIT 0, ...  48 row(s) returned  0.000 sec / 0.000 sec
88  18:25:05  SELECT * FROM worker.Employee  WHERE first_name NOT IN ('Rahul','Shrikant') LIMIT 0, ...  48 row(s) returned  0.000 sec / 0.000 sec
```

2) Write an SQL query to print details of the Workers whose FIRST_NAME ends with ‘h’ and contains six alphabets.

```
SELECT * FROM worker.Employee

WHERE first_name LIKE '%h'

and length(first_name)=6
```



```
SELECT * FROM worker.Employee
WHERE first_name LIKE '%h'
and length(first_name)=6
```

id	first_name	last_name	email	department	Salary	join_date
1	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	95000	2019-05-12
11	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	33000	2019-12-05
NULL	NULL	NULL	NULL	NULL	NULL	NULL

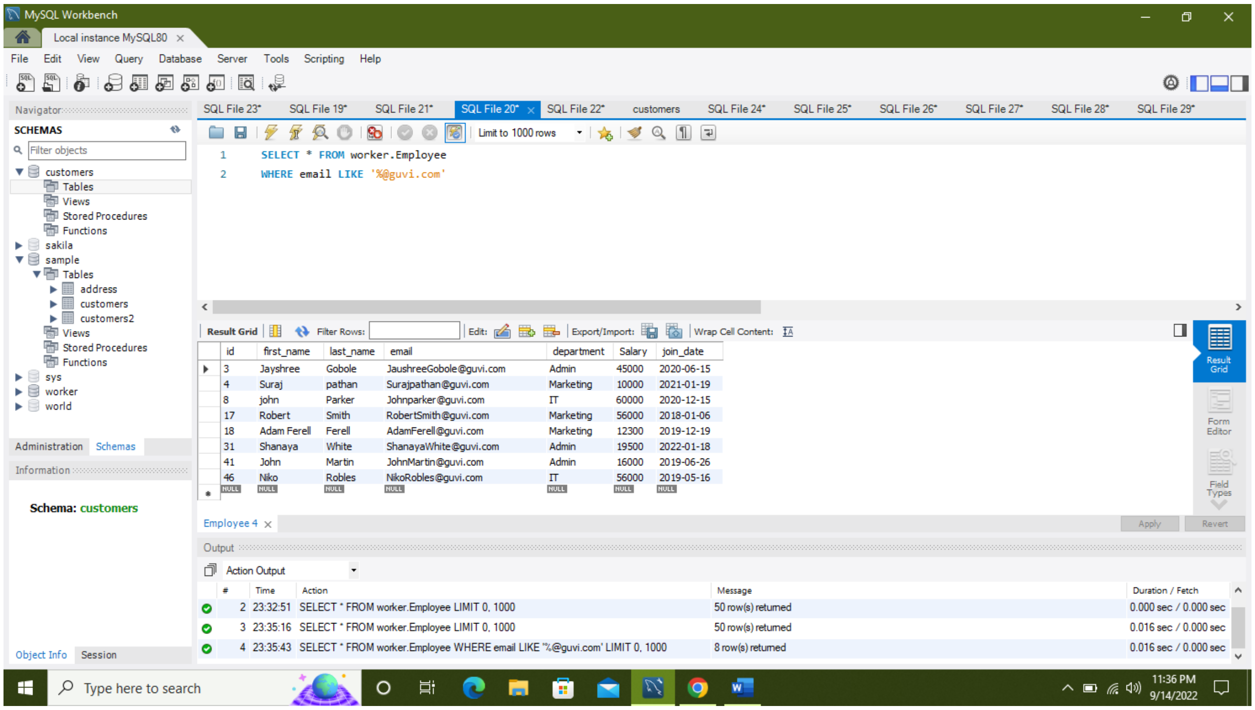
```
#    Time      Action                                                                          Message           Duration / Fetch
103  18:31:12  SELECT * FROM worker.Employee WHERE first_name LIKE '%h' and length(first_name)=6 L...  2 row(s) returned  0.000 sec / 0.000 sec
104  18:31:18  SELECT * FROM worker.Employee WHERE first_name LIKE '%H' and length(first_name)=6 ...   2 row(s) returned  0.000 sec / 0.000 sec
105  18:31:25  SELECT * FROM worker.Employee WHERE first_name LIKE '%h' and length(first_name)=6 L...  2 row(s) returned  0.000 sec / 0.000 sec
```

Query Completed

3) Write a query to validate Email of Employee (email should have first name last name and guvi.com example (first name=Kamal last name= raja and the mail id should be kamalraja@guvi.com).

SELECT * FROM worker.Employee

WHERE email LIKE '%@guvi.com'



```
SELECT * FROM worker.Employee
WHERE email LIKE '%@guvi.com'
```

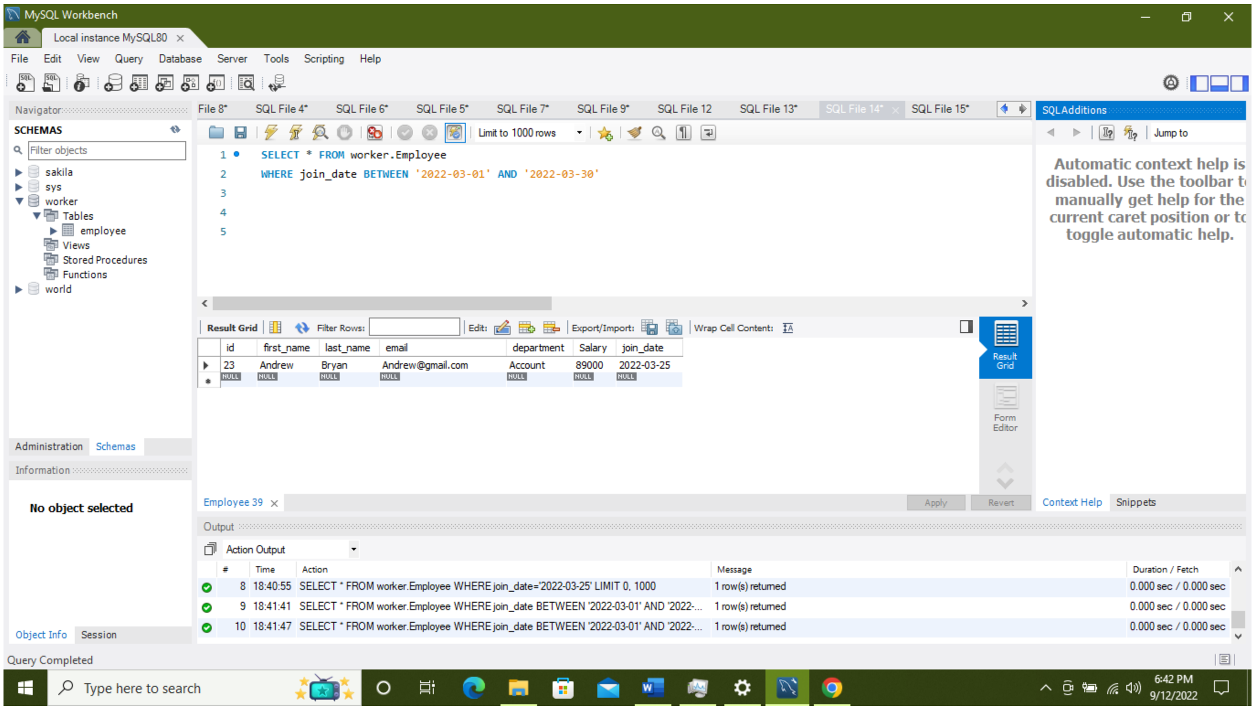
id	first_name	last_name	email	department	Salary	join_date
3	Jayshree	Gobole	JaushreeGobole@guvi.com	Admin	45000	2020-06-15
4	Suraj	pathan	Surajpathan@guvi.com	Marketing	10000	2021-01-19
8	john	Parker	Johnparker@guvi.com	IT	60000	2020-12-15
17	Robert	Smith	RobertSmith@guvi.com	Marketing	56000	2018-01-06
18	Adam Ferell	Ferell	AdamFerell@guvi.com	Marketing	12300	2019-12-19
31	Shanaya	White	ShanayaWhite@guvi.com	Admin	19500	2022-01-18
41	John	Martin	JohnMartin@guvi.com	Admin	16000	2019-06-26
46	Niko	Robles	NikoRobles@guvi.com	IT	56000	2019-05-16
NULL	NULL	NULL	NULL	NULL	NULL	NULL

#	Time	Action	Message	Duration / Fetch
2	23:32:51	SELECT * FROM worker.Employee LIMIT 0, 1000	50 row(s) returned	0.000 sec / 0.000 sec
3	23:35:16	SELECT * FROM worker.Employee LIMIT 0, 1000	50 row(s) returned	0.016 sec / 0.000 sec
4	23:35:43	SELECT * FROM worker.Employee WHERE email LIKE '%@guvi.com' LIMIT 0, 1000	8 row(s) returned	0.016 sec / 0.000 sec

Task-6

1. Write an SQL query to print details of the Workers who have joined in March ’2021.

```
SELECT * FROM worker.Employee

WHERE join_date BETWEEN '2022-03-01' AND '2022-03-30'
```



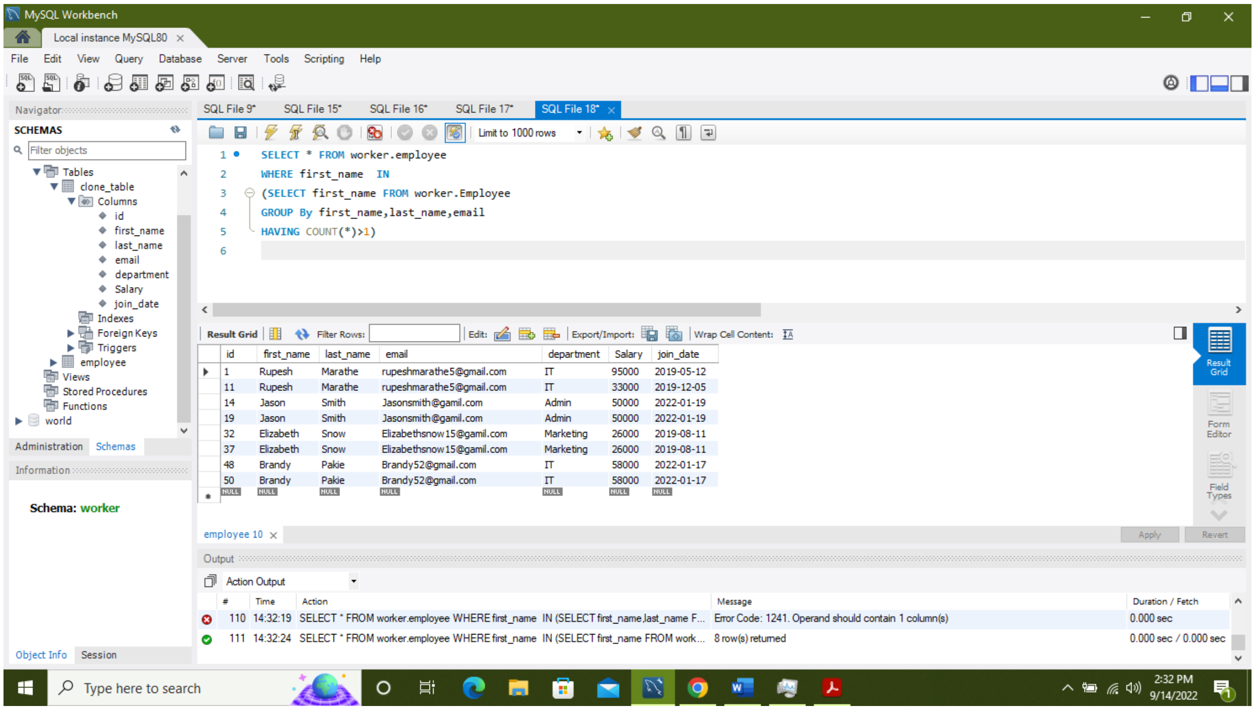
```
SELECT * FROM worker.Employee
WHERE join_date BETWEEN '2022-03-01' AND '2022-03-30'
```

id	first_name	last_name	email	department	Salary	join_date
23	Andrew	Bryan	Andrew@gmail.com	Account	89000	2022-03-25
NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
#   Time      Action                                                                     Message              Duration / Fetch
8   18:40:55  SELECT * FROM worker.Employee WHERE join_date='2022-03-25' LIMIT 0, 1000     1 row(s) returned    0.000 sec / 0.000 sec
9   18:41:41  SELECT * FROM worker.Employee WHERE join_date BETWEEN '2022-03-01' AND '2022-...  1 row(s) returned    0.000 sec / 0.000 sec
10  18:41:47  SELECT * FROM worker.Employee WHERE join_date BETWEEN '2022-03-01' AND '2022-...  1 row(s) returned    0.000 sec / 0.000 sec
```

2) Write an SQL query to fetch duplicates that have matching data in some fields of a table.

```
SELECT * FROM worker.employee

WHERE first_name  IN

(SELECT first_name FROM worker.Employee

GROUP By first_name,last_name,email

HAVING COUNT(*)>1)
```



Schema: worker

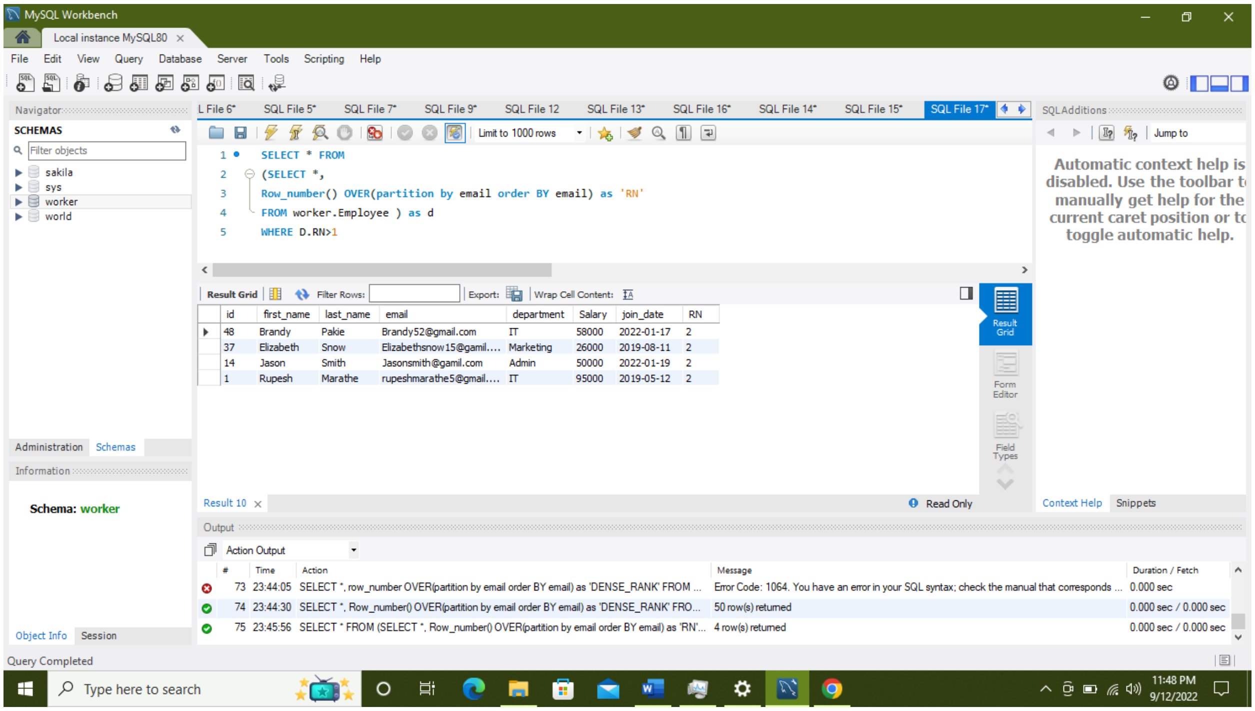
```
SELECT * FROM worker.employee
WHERE first_name  IN
(SELECT first_name FROM worker.Employee
GROUP By first_name,last_name,email
HAVING COUNT(*)>1)
```

id	first_name	last_name	email	department	Salary	join_date
1	Rupesh	Marathe	rupeshmarathe5@gmail.com	IT	95000	2019-05-12
11	Rupesh	Marathe	rupeshmarathe5@gmail.com	IT	33000	2019-12-05
14	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19
19	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19
32	Elizabeth	Snow	Elizabethsnow15@gamil.com	Marketing	26000	2019-08-11
37	Elizabeth	Snow	Elizabethsnow15@gamil.com	Marketing	26000	2019-08-11
48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17
50	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17
NULL	NULL	NULL	NULL	NULL	NULL	NULL

#	Time	Action	Message	Duration / Fetch
110	14:32:19	SELECT * FROM worker.employee WHERE first_name IN (SELECT first_name,last_name F...	Error Code: 1241. Operand should contain 1 column(s)	0.000 sec
111	14:32:24	SELECT * FROM worker.employee WHERE first_name IN (SELECT first_name FROM work...	8 row(s) returned	0.000 sec / 0.000 sec

3) How to remove duplicate rows from the Employees table.

```
SELECT * FROM

(SELECT *,

Row_number() OVER(partition by email order BY email) as 'RN'

FROM worker.Employee ) as d

WHERE D.RN>1
```



```
SELECT * FROM
(SELECT *,
Row_number() OVER(partition by email order BY email) as 'RN'
FROM worker.Employee ) as d
WHERE D.RN>1
```

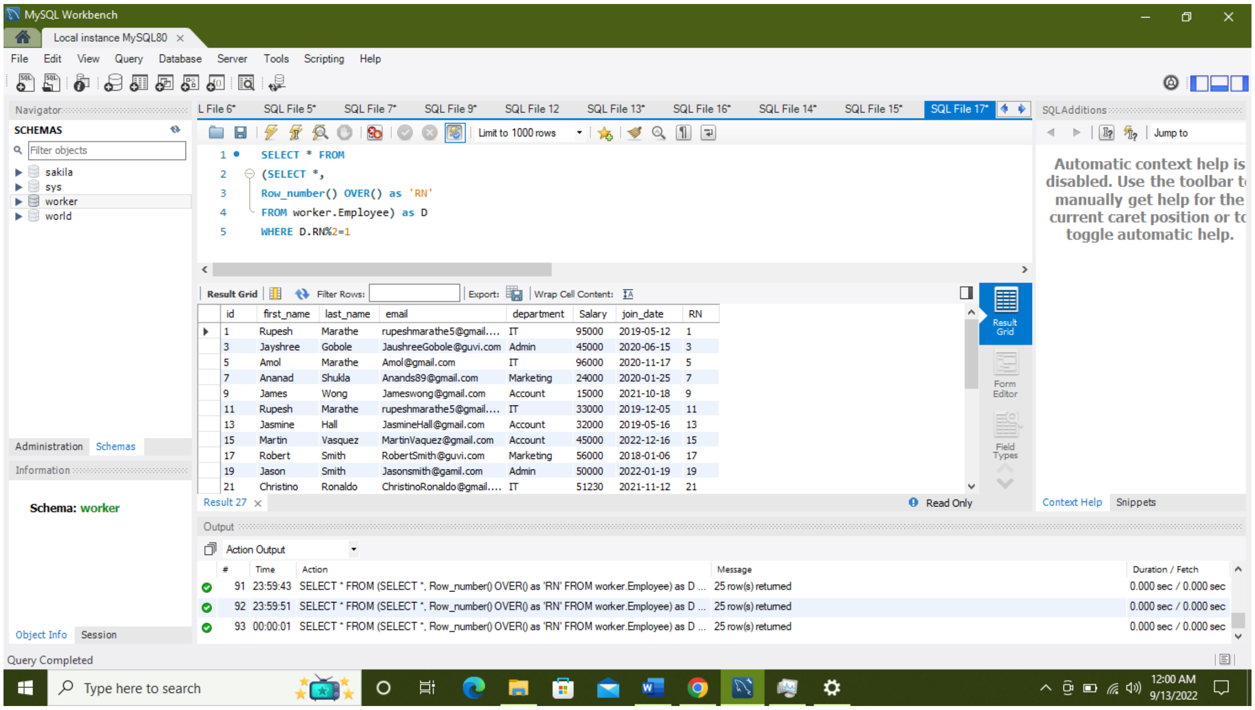
id	first_name	last_name	email	department	Salary	join_date	RN
48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	2
37	Elizabeth	Snow	Elizabethsnow15@gamil....	Marketing	26000	2019-08-11	2
14	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19	2
1	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	95000	2019-05-12	2

#	Time	Action	Message	Duration / Fetch
73	23:44:05	SELECT *, row_number OVER(partition by email order BY email) as 'DENSE_RANK' FROM ...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds ...	0.000 sec
74	23:44:30	SELECT *, Row_number() OVER(partition by email order BY email) as 'DENSE_RANK' FRO...	50 row(s) returned	0.000 sec / 0.000 sec
75	23:45:56	SELECT * FROM (SELECT *, Row_number() OVER(partition by email order BY email) as 'RN'...	4 row(s) returned	0.000 sec / 0.000 sec

Task-7

1. Write an SQL query to show only odd rows from a table.

```
SELECT * FROM

(SELECT *,

Row_number() OVER() as 'RN'

FROM worker.Employee) as D

WHERE D.RN%2=1
```



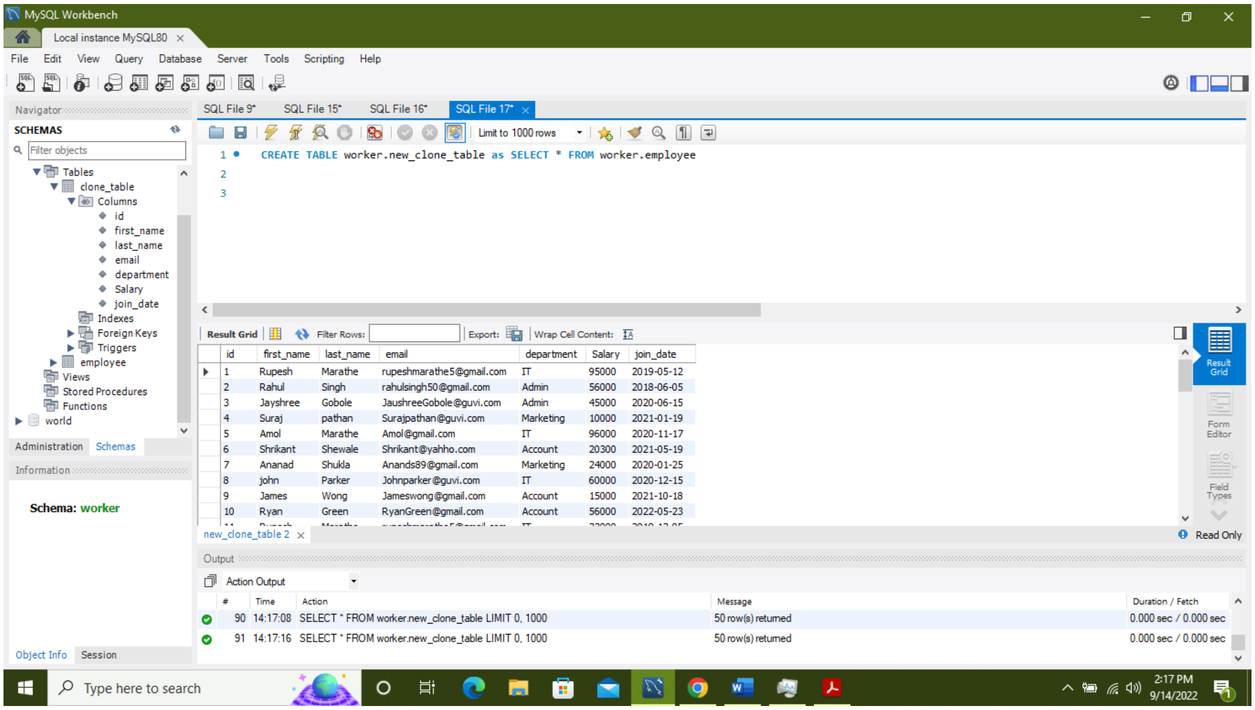
```
SELECT * FROM
(SELECT *,
Row_number() OVER() as 'RN'
FROM worker.Employee) as D
WHERE D.RN%2=1
```

id	first_name	last_name	email	department	Salary	join_date	RN
1	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	95000	2019-05-12	1
3	Jayshree	Gobole	JaushreeGobole@guvi.com	Admin	45000	2020-06-15	3
5	Amol	Marathe	Amol@gmail.com	IT	96000	2020-11-17	5
7	Ananad	Shukla	Anands89@gmail.com	Marketing	24000	2020-01-25	7
9	James	Wong	Jameswong@gmail.com	Account	15000	2021-10-18	9
11	Rupesh	Marathe	rupeshmarathe5@gmail....	IT	33000	2019-12-05	11
13	Jasmine	Hall	JasmineHall@gmail.com	Account	32000	2019-05-16	13
15	Martin	Vasquez	MartinVaquez@gmail.com	Account	45000	2022-12-16	15
17	Robert	Smith	RobertSmith@guvi.com	Marketing	56000	2018-01-06	17
19	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19	19
21	Christino	Ronaldo	ChristinoRonaldo@gmail....	IT	51230	2021-11-12	21

```
#   Time      Action                                                                       Message             Duration / Fetch
91  23:59:43  SELECT * FROM (SELECT *, Row_number() OVER() as 'RN' FROM worker.Employee) as D ...  25 row(s) returned  0.000 sec / 0.000 sec
92  23:59:51  SELECT * FROM (SELECT *, Row_number() OVER() as 'RN' FROM worker.Employee) as D ...  25 row(s) returned  0.000 sec / 0.000 sec
93  00:00:01  SELECT * FROM (SELECT *, Row_number() OVER() as 'RN' FROM worker.Employee) as D ...  25 row(s) returned  0.000 sec / 0.000 sec
```

2.Write an SQL query to clone a new table from another table

CREATE TABLE worker.new_clone_table as SELECT * FROM worker.employee



Schema: worker

```
CREATE TABLE worker.new_clone_table as SELECT * FROM worker.employee
```

id	first_name	last_name	email	department	Salary	join_date
1	Rupesh	Marathe	rupeshmarathe5@gmail.com	IT	95000	2019-05-12
2	Rahul	Singh	rahulsingh50@gmail.com	Admin	56000	2018-06-05
3	Jayshree	Gobole	JaushreeGobole@guvi.com	Admin	45000	2020-06-15
4	Suraj	pathan	Surajpathan@guvi.com	Marketing	10000	2021-01-19
5	Amol	Marathe	Amol@gmail.com	IT	96000	2020-11-17
6	Shrikant	Shewale	Shrikant@yahho.com	Account	20300	2021-05-19
7	Ananad	Shukla	Anands89@gmail.com	Marketing	24000	2020-01-25
8	john	Parker	Johnparker@guvi.com	IT	60000	2020-12-15
9	James	Wong	Jameswong@gmail.com	Account	15000	2021-10-18
10	Ryan	Green	RyanGreen@gmail.com	Account	56000	2022-05-23

```
#   Time      Action                                              Message              Duration / Fetch
90  14:17:08  SELECT * FROM worker.new_clone_table LIMIT 0, 1000  50 row(s) returned   0.000 sec / 0.000 sec
91  14:17:16  SELECT * FROM worker.new_clone_table LIMIT 0, 1000  50 row(s) returned   0.000 sec / 0.000 sec
```

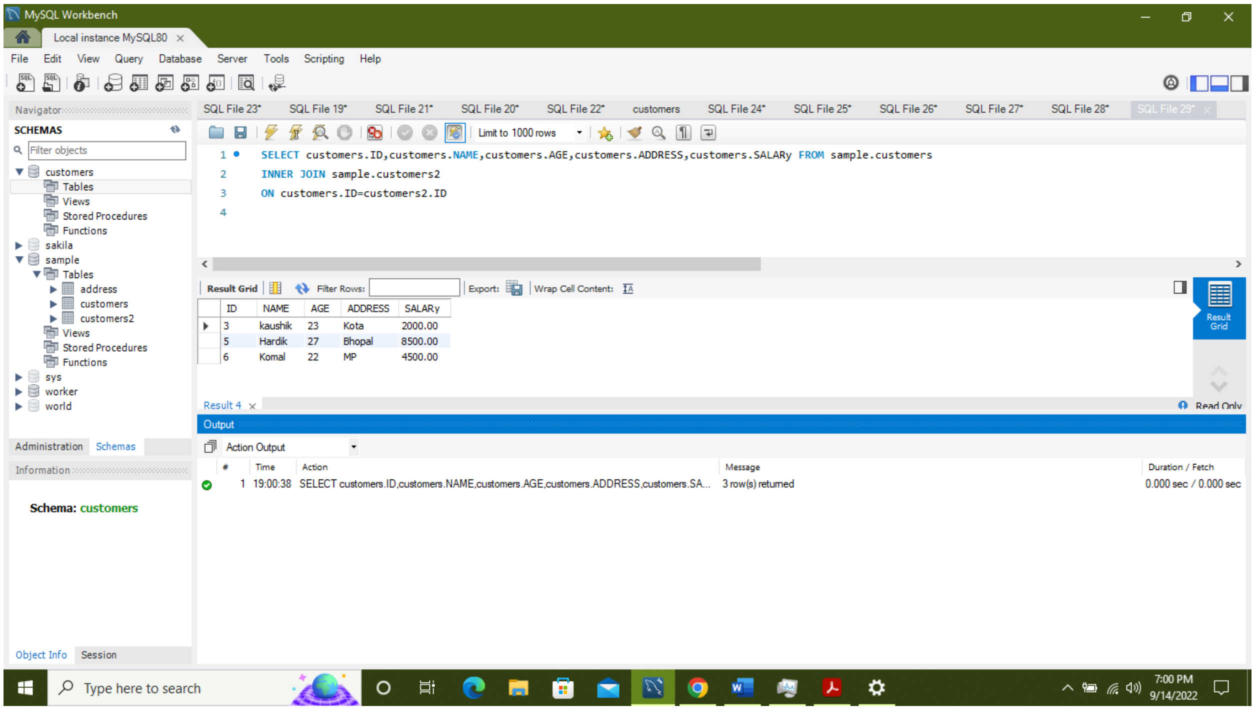
Task-8

1. Write an SQL query to fetch intersecting records of two tables.

SELECT customers.ID,customers.NAME,customers.AGE,customers.ADDRESS,customers.SALARy FROM sample.customers

INNER JOIN sample.customers2

ON customers.ID=customers2.ID

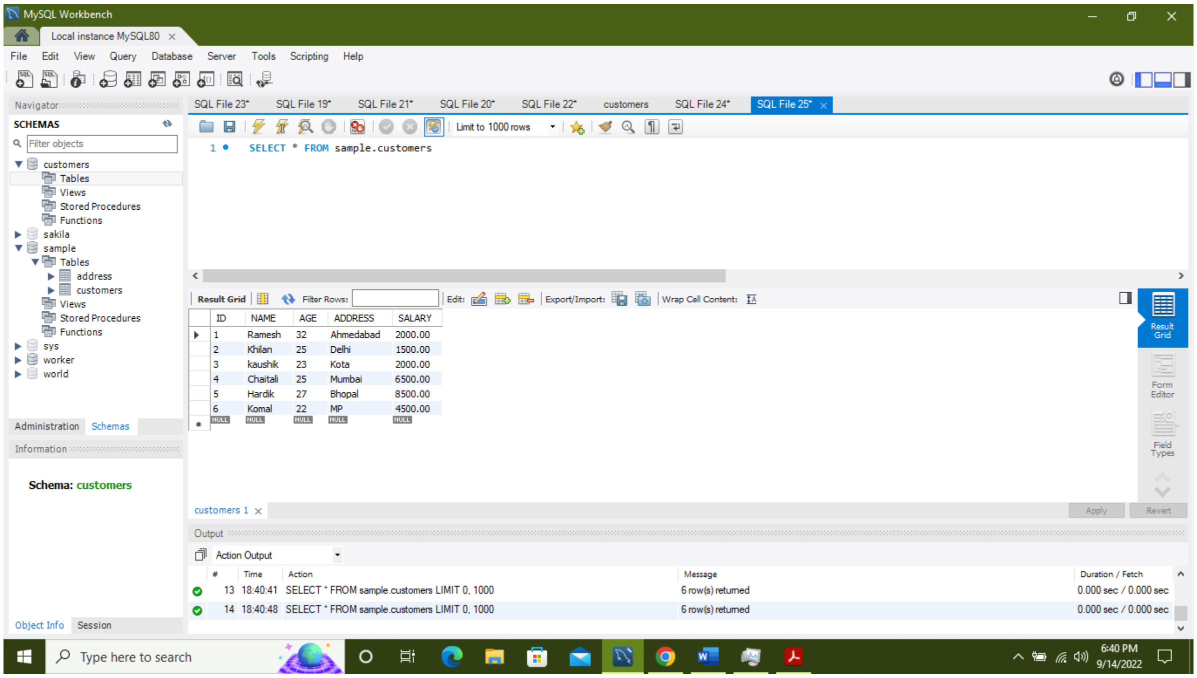


```
SELECT customers.ID,customers.NAME,customers.AGE,customers.ADDRESS,customers.SALARy FROM sample.customers
INNER JOIN sample.customers2
ON customers.ID=customers2.ID
```

ID	NAME	AGE	ADDRESS	SALARy
3	kaushik	23	Kota	2000.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00

#	Time	Action	Message	Duration / Fetch
1	19:00:38	SELECT customers.ID,customers.NAME,customers.AGE,customers.ADDRESS,customers.SA...	3 row(s) returned	0.000 sec / 0.000 sec

2) Write an SQL query to show records from one table that another table does not have



```
SELECT * FROM sample.customers
```

Schema: customers

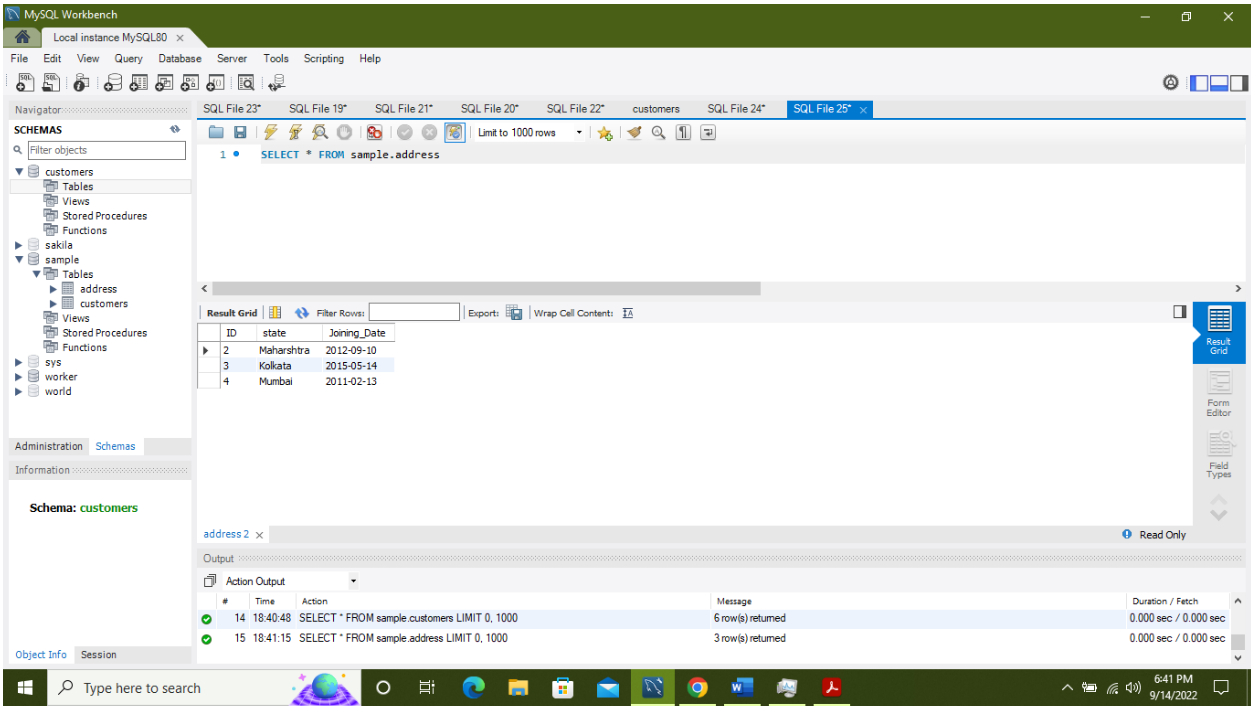
ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
NULL	NULL	NULL	NULL	NULL

customers 1

Output

Action Output

```
#   Time      Action                                        Message            Duration / Fetch
13  18:40:41  SELECT * FROM sample.customers LIMIT 0, 1000  6 row(s) returned  0.000 sec / 0.000 sec
14  18:40:48  SELECT * FROM sample.customers LIMIT 0, 1000  6 row(s) returned  0.000 sec / 0.000 sec
```



```
SELECT * FROM sample.address
```

Schema: customers

ID	state	Joining_Date
2	Maharshtra	2012-09-10
3	Kolkata	2015-05-14
4	Mumbai	2011-02-13

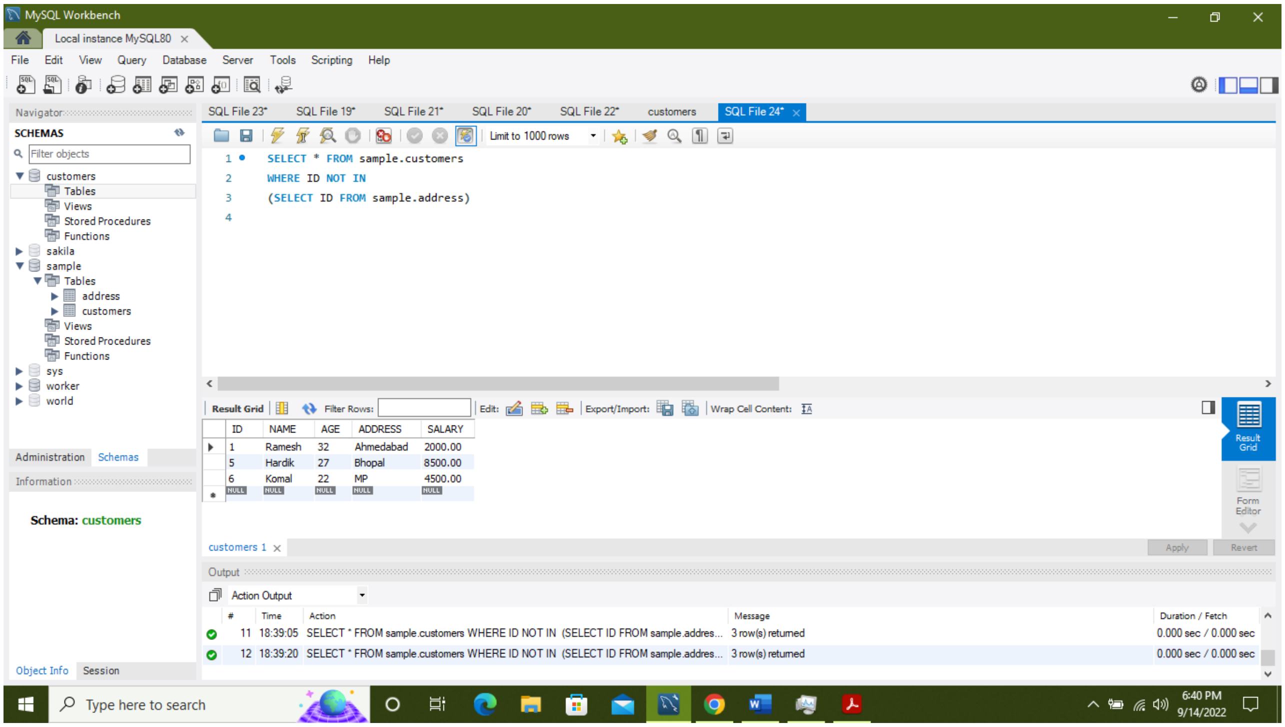
address 2

Output

Action Output

```
#   Time      Action                                        Message            Duration / Fetch
14  18:40:48  SELECT * FROM sample.customers LIMIT 0, 1000  6 row(s) returned  0.000 sec / 0.000 sec
15  18:41:15  SELECT * FROM sample.address LIMIT 0, 1000    3 row(s) returned  0.000 sec / 0.000 sec
```

```
SELECT * FROM sample.customers

WHERE ID NOT IN

(SELECT ID FROM sample.address)
```



```
SELECT * FROM sample.customers
WHERE ID NOT IN
(SELECT ID FROM sample.address)
```

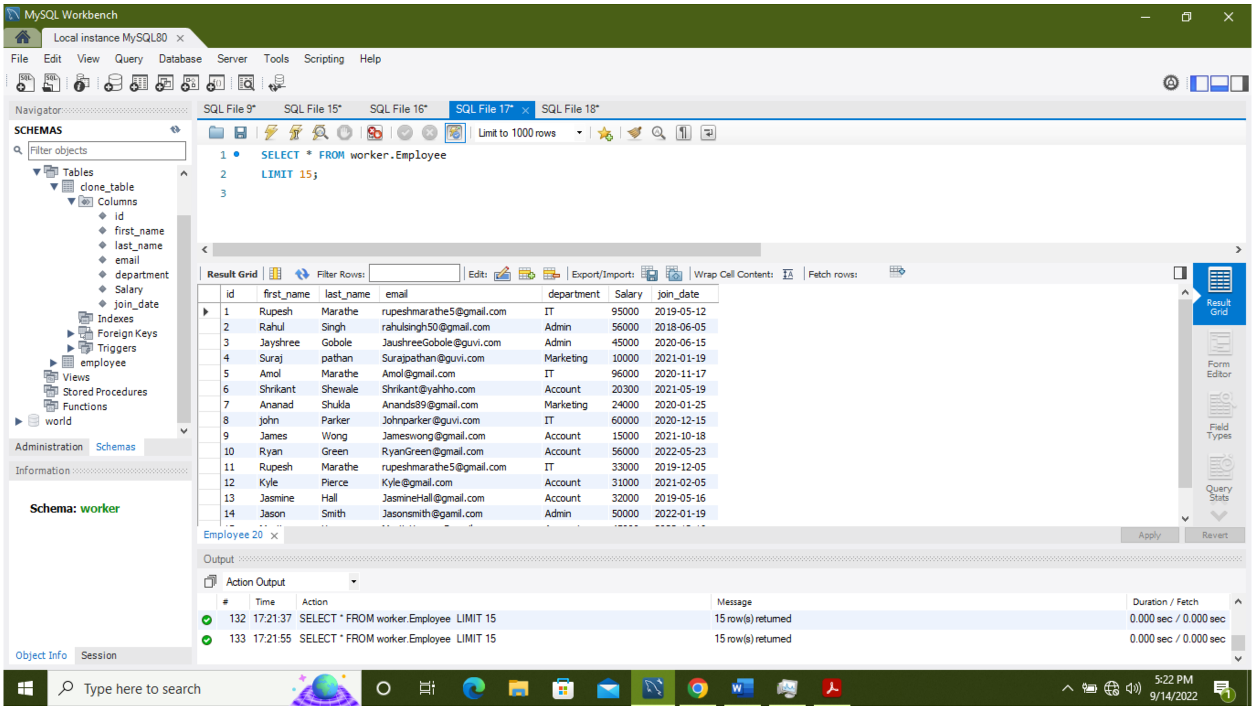
ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00
NULL	NULL	NULL	NULL	NULL

```
#   Time      Action                                                                  Message            Duration / Fetch
11  18:39:05  SELECT * FROM sample.customers WHERE ID NOT IN  (SELECT ID FROM sample.addres...  3 row(s) returned  0.000 sec / 0.000 sec
12  18:39:20  SELECT * FROM sample.customers WHERE ID NOT IN  (SELECT ID FROM sample.addres...  3 row(s) returned  0.000 sec / 0.000 sec
```

Task-9

1. Write an SQL query to show the top n (say 15) records of a table.

```
SELECT * FROM worker.Employee

LIMIT 15;
```



```
SELECT * FROM worker.Employee
LIMIT 15;
```

id	first_name	last_name	email	department	Salary	join_date
1	Rupesh	Marathe	rupeshmarathe5@gmail.com	IT	95000	2019-05-12
2	Rahul	Singh	rahulsingh50@gmail.com	Admin	56000	2018-06-05
3	Jayshree	Gobole	JaushreeGobole@guvi.com	Admin	45000	2020-06-15
4	Suraj	pathan	Surajpathan@guvi.com	Marketing	10000	2021-01-19
5	Amol	Marathe	Amol@gmail.com	IT	96000	2020-11-17
6	Shrikant	Shewale	Shrikant@yahho.com	Account	20300	2021-05-19
7	Ananad	Shukla	Anands89@gmail.com	Marketing	24000	2020-01-25
8	john	Parker	Johnparker@guvi.com	IT	60000	2020-12-15
9	James	Wong	Jameswong@gmail.com	Account	15000	2021-10-18
10	Ryan	Green	RyanGreen@gmail.com	Account	56000	2022-05-23
11	Rupesh	Marathe	rupeshmarathe5@gmail.com	IT	33000	2019-12-05
12	Kyle	Pierce	Kyle@gmail.com	Account	31000	2021-02-05
13	Jasmine	Hall	JasmineHall@gmail.com	Account	32000	2019-05-16
14	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19

Employee 20

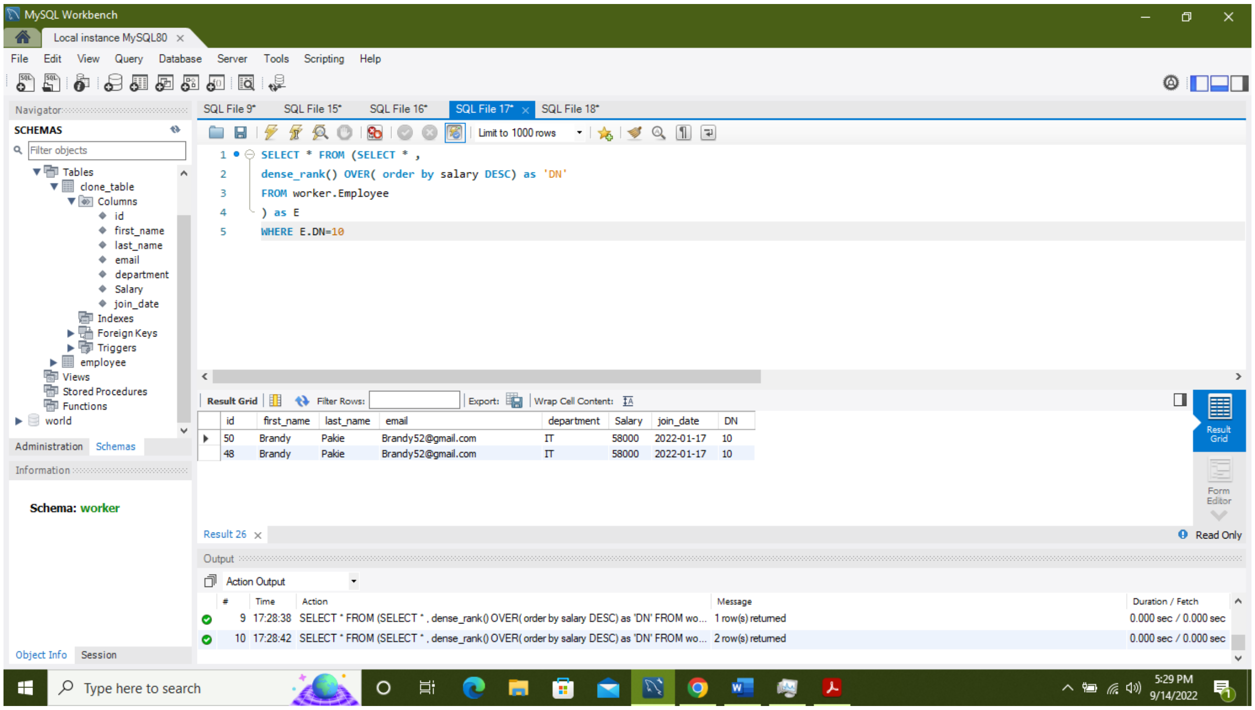
Output

Action Output

#	Time	Action	Message	Duration / Fetch
132	17:21:37	SELECT * FROM worker.Employee LIMIT 15	15 row(s) returned	0.000 sec / 0.000 sec
133	17:21:55	SELECT * FROM worker.Employee LIMIT 15	15 row(s) returned	0.000 sec / 0.000 sec

2) Write an SQL query to determine the nth (say n=10) highest salary from a table.

```
SELECT * FROM (SELECT * ,

dense_rank() OVER( order by salary DESC) as 'DN'

FROM worker.Employee

) as E

WHERE E.DN=10
```



```
SELECT * FROM (SELECT * ,
dense_rank() OVER( order by salary DESC) as 'DN'
FROM worker.Employee
) as E
WHERE E.DN=10
```

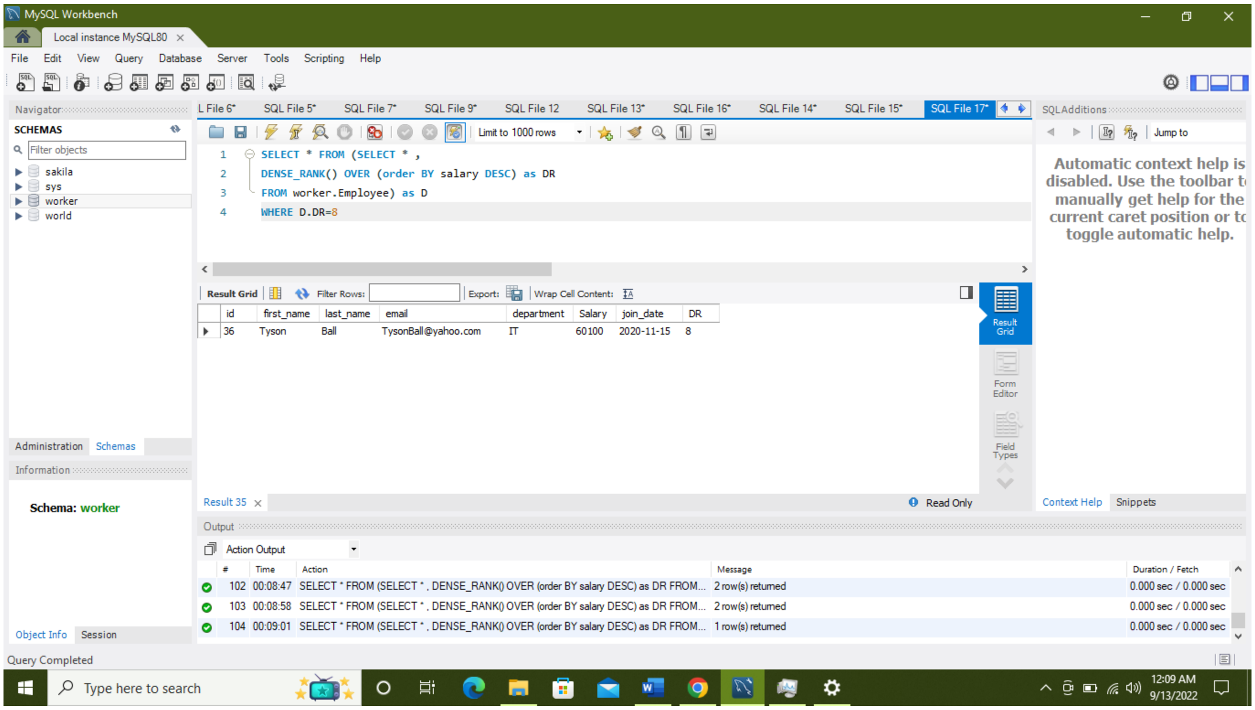
id	first_name	last_name	email	department	Salary	join_date	DN
50	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	10
48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17	10

```
#   Time      Action                                                                    Message            Duration / Fetch
9   17:28:38  SELECT * FROM (SELECT * , dense_rank() OVER( order by salary DESC) as 'DN' FROM wo...  1 row(s) returned  0.000 sec / 0.000 sec
10  17:28:42  SELECT * FROM (SELECT * , dense_rank() OVER( order by salary DESC) as 'DN' FROM wo...  2 row(s) returned  0.000 sec / 0.000 sec
```

Task-10

1) Write an SQL query to determine the 8th highest salary without using TOP or LIMIT methods.

```
SELECT * FROM (SELECT * ,
DENSE_RANK() OVER (order BY salary DESC) as DR
FROM worker.Employee) as D
WHERE D.DR=8
```



```
SELECT * FROM (SELECT * ,
DENSE_RANK() OVER (order BY salary DESC) as DR
FROM worker.Employee) as D
WHERE D.DR=8
```

id	first_name	last_name	email	department	Salary	join_date	DR
36	Tyson	Ball	TysonBall@yahoo.com	IT	60100	2020-11-15	8

Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.

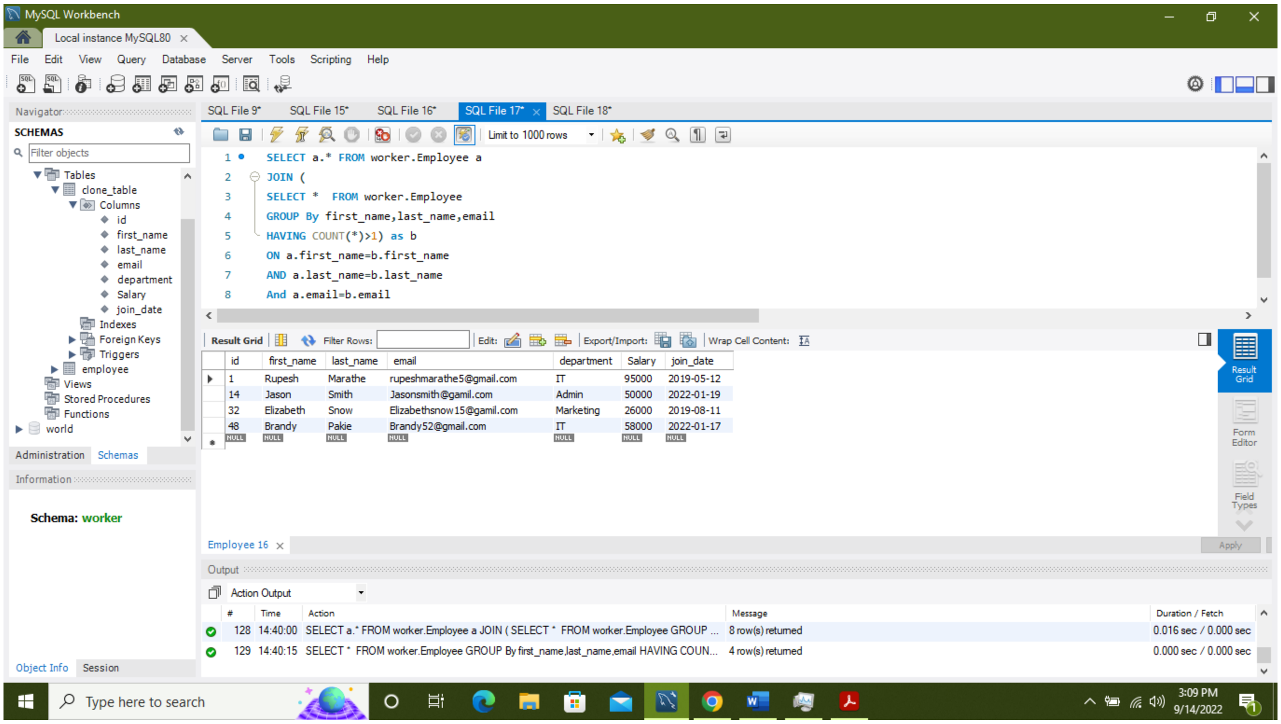
Schema: worker

```
#    Time      Action                                                                   Message            Duration / Fetch
102  00:08:47  SELECT * FROM (SELECT * , DENSE_RANK() OVER (order BY salary DESC) as DR FROM...  2 row(s) returned  0.000 sec / 0.000 sec
103  00:08:58  SELECT * FROM (SELECT * , DENSE_RANK() OVER (order BY salary DESC) as DR FROM...  2 row(s) returned  0.000 sec / 0.000 sec
104  00:09:01  SELECT * FROM (SELECT * , DENSE_RANK() OVER (order BY salary DESC) as DR FROM...  1 row(s) returned  0.000 sec / 0.000 sec
```

Query Completed

2) Write an SQL query to fetch the list of employees with the same salary.

```
SELECT a.* FROM worker.Employee a

JOIN (

SELECT *  FROM worker.Employee

GROUP By first_name,last_name,email

HAVING COUNT(*)>1) as b

ON a.first_name=b.first_name

AND a.last_name=b.last_name

And a.email=b.email
```



Schema: worker

```
SELECT a.* FROM worker.Employee a
JOIN (
SELECT *  FROM worker.Employee
GROUP By first_name,last_name,email
HAVING COUNT(*)>1) as b
ON a.first_name=b.first_name
AND a.last_name=b.last_name
And a.email=b.email
```

id	first_name	last_name	email	department	Salary	join_date
1	Rupesh	Marathe	rupeshmarathe5@gmail.com	IT	95000	2019-05-12
14	Jason	Smith	Jasonsmith@gamil.com	Admin	50000	2022-01-19
32	Elizabeth	Snow	Elizabethsnow15@gamil.com	Marketing	26000	2019-08-11
48	Brandy	Pakie	Brandy52@gmail.com	IT	58000	2022-01-17
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Employee 16

Output

Action Output

```
#    Time      Action                                                                   Message            Duration / Fetch
128  14:40:00  SELECT a.* FROM worker.Employee a JOIN ( SELECT *  FROM worker.Employee GROUP ...   8 row(s) returned  0.016 sec / 0.000 sec
129  14:40:15  SELECT *  FROM worker.Employee GROUP By first_name,last_name,email HAVING COUN...   4 row(s) returned  0.000 sec / 0.000 sec
```