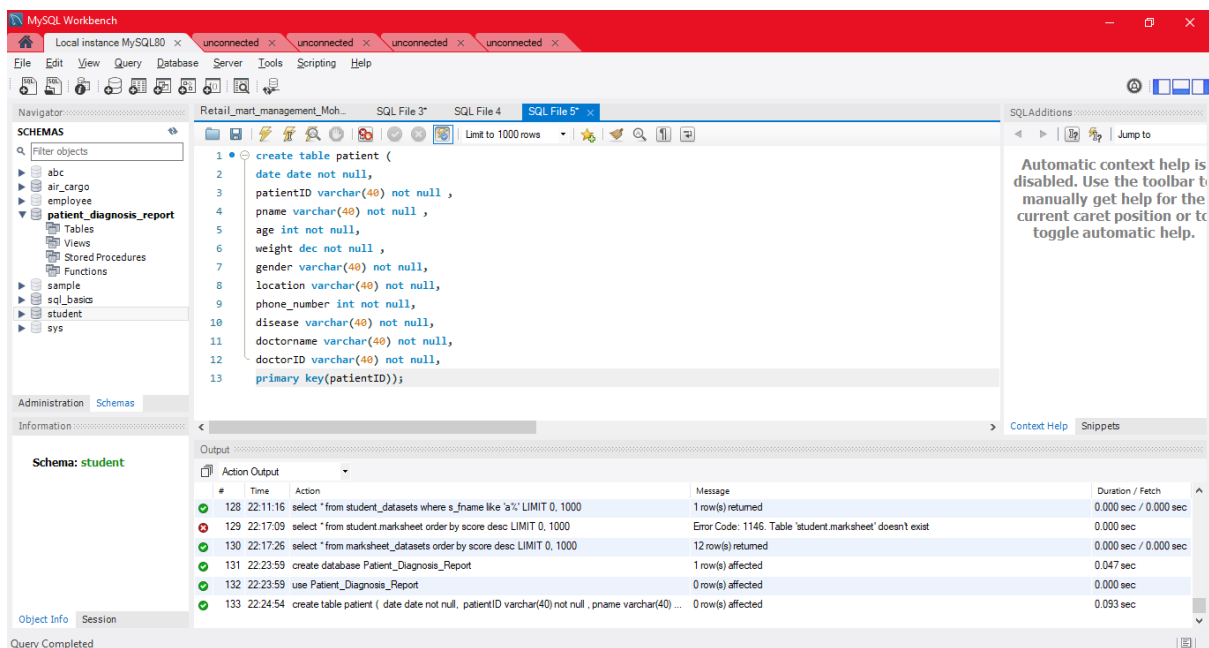
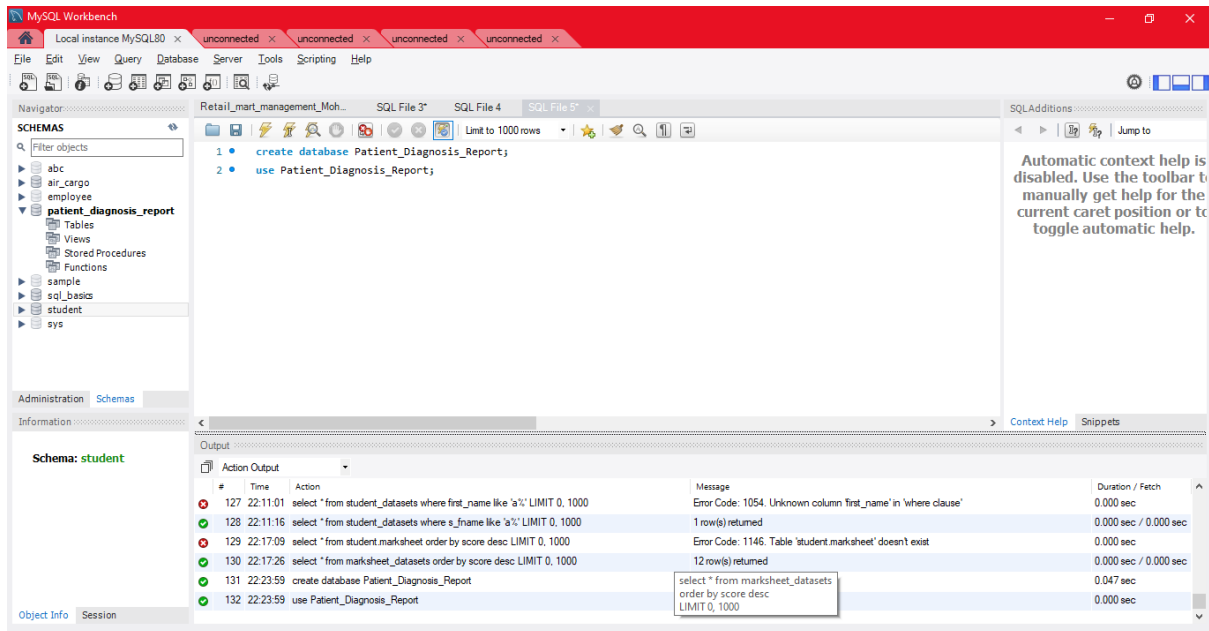
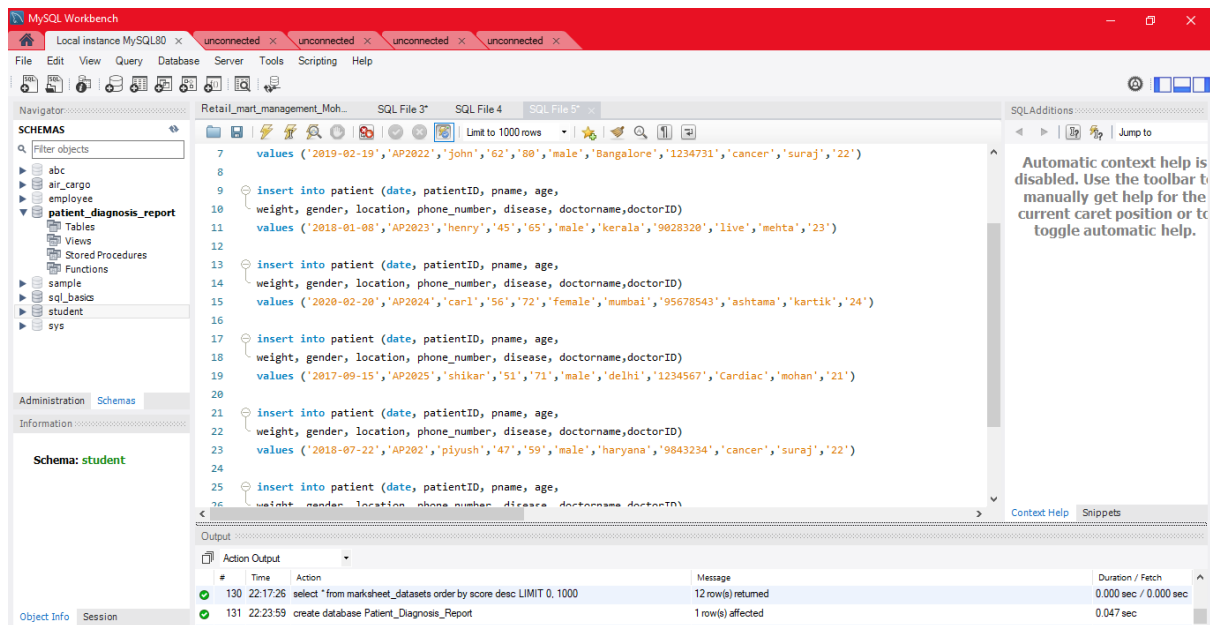


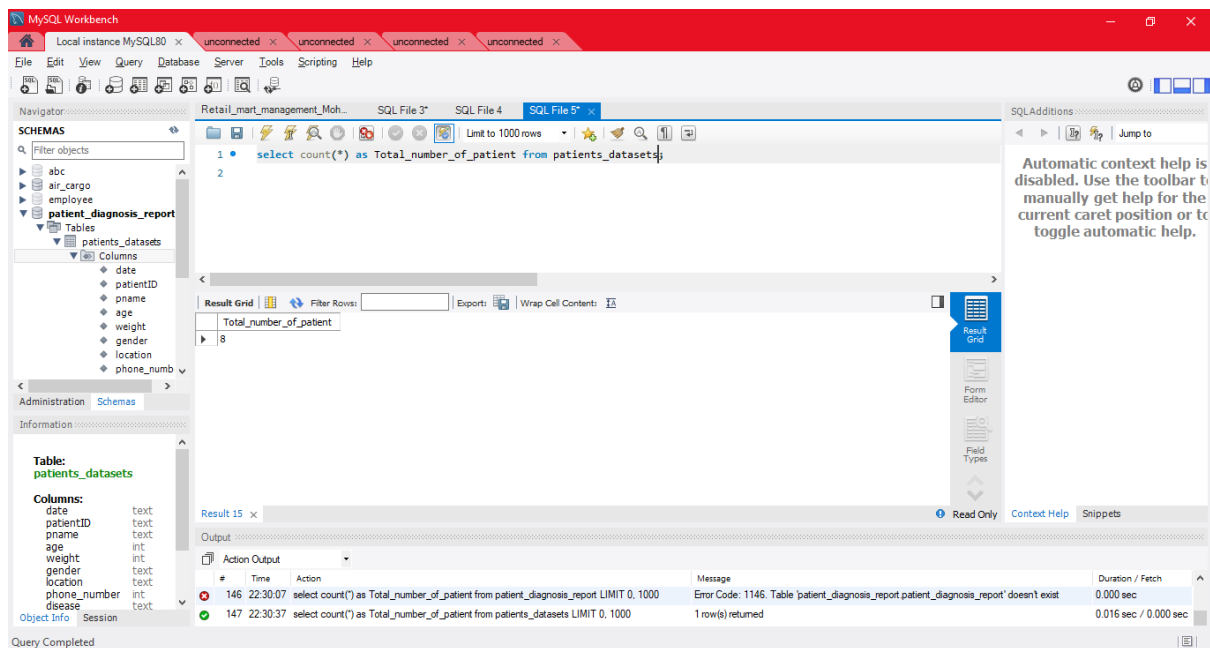
1. Write a query to create a patients table with the date, patient ID, patient name, age, weight, gender, location, phone number, disease, doctor name, and doctor ID fields\*



## 2, Write a query to insert values into the patients table



## 3, Write a query to display the total number of patients in the table.



## 4, Write a query to display the patient id, patient name, gender, and disease of the patient whose age is maximum.

	pid	p_name	gender	disease	MAX_AGE
▶	AP2021	Sarath	Male	Cardiac	75

5, Write a query to display with the current date.

The screenshot shows MySQL Workbench with a query window containing the following SQL code:

```
1 • alter table patients_datasets rename to patient;
2 • select patientID,pname,NOW() as currentdate from patient;
3
```

The result grid displays the following data:

patientID	pname	currentdate
AP2021	Sarath	2023-02-11 22:36:53
AP2022	John	2023-02-11 22:36:53
AP2023	Henry	2023-02-11 22:36:53
AP2024	Carl	2023-02-11 22:36:53
AP2025	Shikar	2023-02-11 22:36:53
AP2026	Piyush	2023-02-11 22:36:53
AP2027	Stephen	2023-02-11 22:36:53
AP2028	Aaron	2023-02-11 22:36:53

The Action Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
157	22:36:53	alter table patients_datasets rename to patient	0 row(s) affected	0.141 sec
158	22:36:53	select patientID,pname,NOW() as currentdate from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

6, Write a query to display the old patient name and new patient name in uppercase

The screenshot shows MySQL Workbench with a query window containing the following SQL code:

```
1 • select pname as old_patient, upper(pname) as new_patient from patient;
2
```

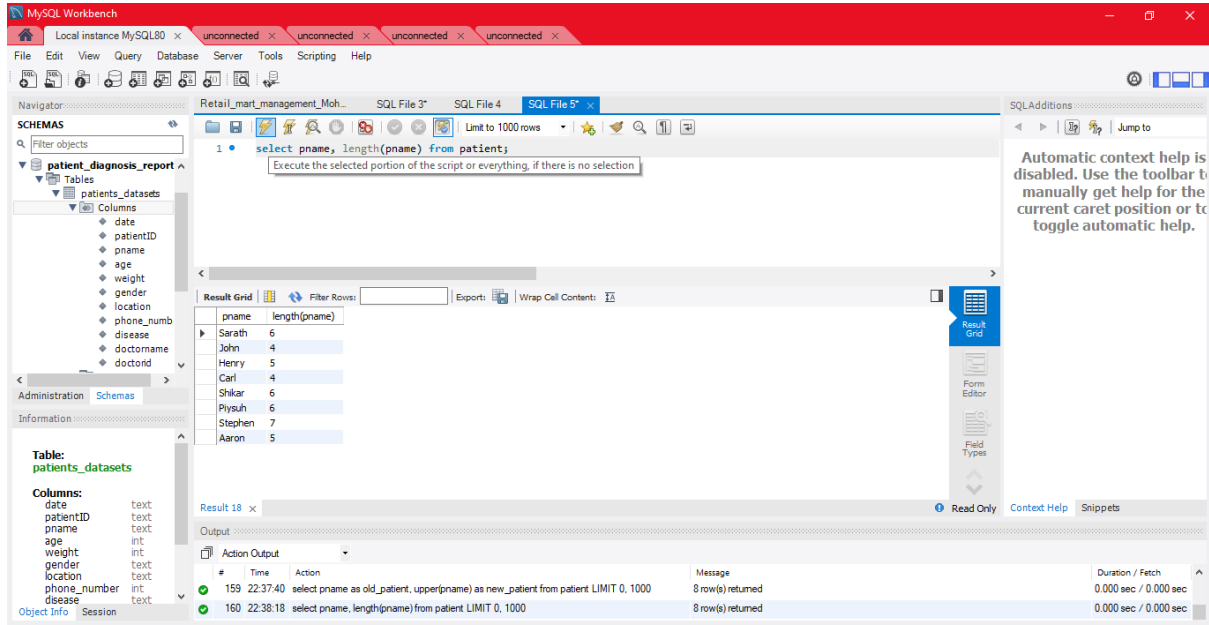
The result grid displays the following data:

old_patient	new_patient
Sarath	SARATH
John	JOHN
Henry	HENRY
Carl	CARL
Shikar	SHIKAR
Piyush	PIYUSH
Stephen	STEPHEN
Aaron	AARON

The Action Output pane shows the following messages:

#	Time	Action	Message	Duration / Fetch
158	22:36:53	select patientID,pname,NOW() as currentdate from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
159	22:37:40	select pname as old_patient, upper(pname) as new_patient from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

7. Write a query to display the patients' names along with the total number of characters in their name



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 • select pname, length(pname) from patient;
```

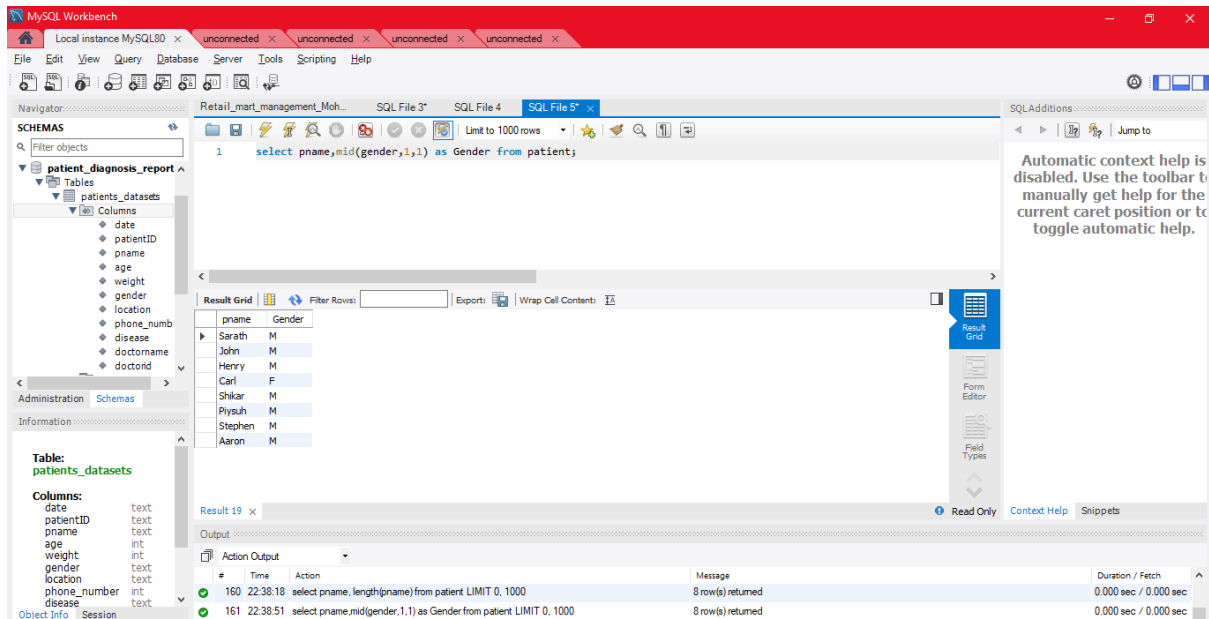
The query is executed, and the results are displayed in the Result Grid:

pname	length(pname)
Sarath	6
John	4
Henry	5
Carl	4
Shkar	6
Piyuh	6
Stephen	7
Aaron	5

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
159	22:37:40	select pname as old_pname, upper(pname) as new_pname from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
160	22:38:18	select pname, length(pname) from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

8. Write a query to display the gender of the patient as M or F along with the patient's name



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 • select pname, mid(gender,1,1) as Gender from patient;
```

The query is executed, and the results are displayed in the Result Grid:

pname	Gender
Sarath	M
John	M
Henry	M
Carl	F
Shkar	M
Piyuh	M
Stephen	M
Aaron	M

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
160	22:38:18	select pname, length(pname) from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
161	22:38:51	select pname, mid(gender,1,1) as Gender from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

9, Write a query to combine the patient's name and doctor's name in a new column

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 select pname,doctorname,concat(pname,doctorname) as patient_doctor_name from patient;
```

The query is executed, and the results are displayed in the Result Grid:

	pname	doctorname	patient_doctor_name
▶	Sarath	Mohan	SarathMohan
	John	Suraj	JohnSuraj
	Henry	Mehta	HenryMehta
	Carl	Karthik	CarlKarthik
	Shikar	Mohan	ShikarMohan
	Piyush	Suraj	PiyushSuraj
	Stephen	Mehta	StephenMehta
	Aaron	Karthik	AaronKarthik

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
161	22:38:51	select pname,mid(gender,1,1) as Gender from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
162	22:39:30	select pname,doctorname,concat(pname,doctorname) as patient_doctor_name from patient ...	8 row(s) returned	0.000 sec / 0.000 sec

10, Write a query to display the patients' age along with the logarithmic value (base 10) of their age

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 select age,log10(age) as log_age from patient;
```

The query is executed, and the results are displayed in the Result Grid:

	age	log_age
▶	67	1.8260748027008264
	62	1.792391689498254
	43	1.6334684555795864
	56	1.7481880270062005
	55	1.7403626894942439
	47	1.6720978579357175
	69	1.8388490907372552
	75	1.8750612633917

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
162	22:39:30	select pname,doctorname,concat(pname,doctorname) as patient_doctor_name from patient ...	8 row(s) returned	0.000 sec / 0.000 sec
163	22:40:01	select age,log10(age) as log_age from patient LIMIT 0, 1000	8 row(s) returned	0.062 sec / 0.000 sec

11, Write a query to extract the year for a given date and place it in a separate column

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query: `select *, year(date) as Year from patient;`. The result grid displays the following data:

date	patientID	pname	age	weight	gender	location	phone_number	disease	doctorname	doctorid	Year
15-06-19	AP2021	Sarath	67	76	Male	chennai	5462829	Cardiac	Mohan	21	2015
13-02-19	AP2022	John	62	80	Male	banglore	1234731	Cancer	Suraj	22	2013
08-01-18	AP2023	Henry	43	65	Male	Kerala	9028520	Liver	Mehta	23	2008
04-02-20	AP2024	Carl	56	72	Female	Mumbai	9293829	Asthma	Karthik	24	2004
15-09-17	AP2025	Shikar	55	71	Male	Delhi	7621281	Cardiac	Mohan	21	2015
22-07-18	AP2026	Piyush	47	59	Male	Haryana	8912819	Cancer	Suraj	22	2022
25-03-17	AP2027	Stephen	69	55	Male	Gujarat	8888211	Liver	Mehta	23	2025
22-04-19	AP2028	Aaron	75	53	Male	Banglore	9012192	Asthma	Karthik	24	2022

The Action Output pane shows the execution of the query, indicating that 8 rows were returned.

12. Write a query to check the patient's name and doctor's name are similar and display NULL, else return the patient's name

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query: `select *, year(date) as Year from patient LIMIT 0, 1000;`. The result grid displays the following data:

date	patientID	pname	age	weight	gender	location	phone_number	disease	doctorname	doctorid	Year
		Sarath									
		John									
		Henry									
		Carl									
		Shikar									
		Piyush									
		Stephen									
		Aaron									

The Action Output pane shows the execution of the query, indicating that 8 rows were returned.

13, Write a query to check if a patient's age is greater than 40 and display Yes if it is and No if it isn't

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 select age,if(age>40,'Yes','No') as Age_greater_than_40_yes_no from patient;
```

The query has been executed, and the results are displayed in the Result Grid:

age	Age_greater_than_40_yes_no
67	Yes
62	Yes
43	Yes
56	Yes
55	Yes
47	Yes
69	Yes
75	Yes

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
165	22:41:37	select nullif(phone_number,doctormame) from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
166	22:42:29	select age,if(age>40,'Yes','No') as Age_greater_than_40_yes_no from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

14, Write a query to display duplicate entries in the doctor name column

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 select doctorname,count(*) occurrences from patient
2
```

The query has been executed, and the results are displayed in the Result Grid:

doctorname	occurrences
Mohan	2
Suraj	2
Mehta	2
Karthik	2

The Action Output pane shows the execution details:

#	Time	Action	Message	Duration / Fetch
166	22:42:29	select age,if(age>40,'Yes','No') as Age_greater_than_40_yes_no from patient LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
167	22:42:51	select doctorname,count(*) occurrences from patient group by doctorname having count(*)>... 4 row(s) returned	4 row(s) returned	0.000 sec / 0.000 sec