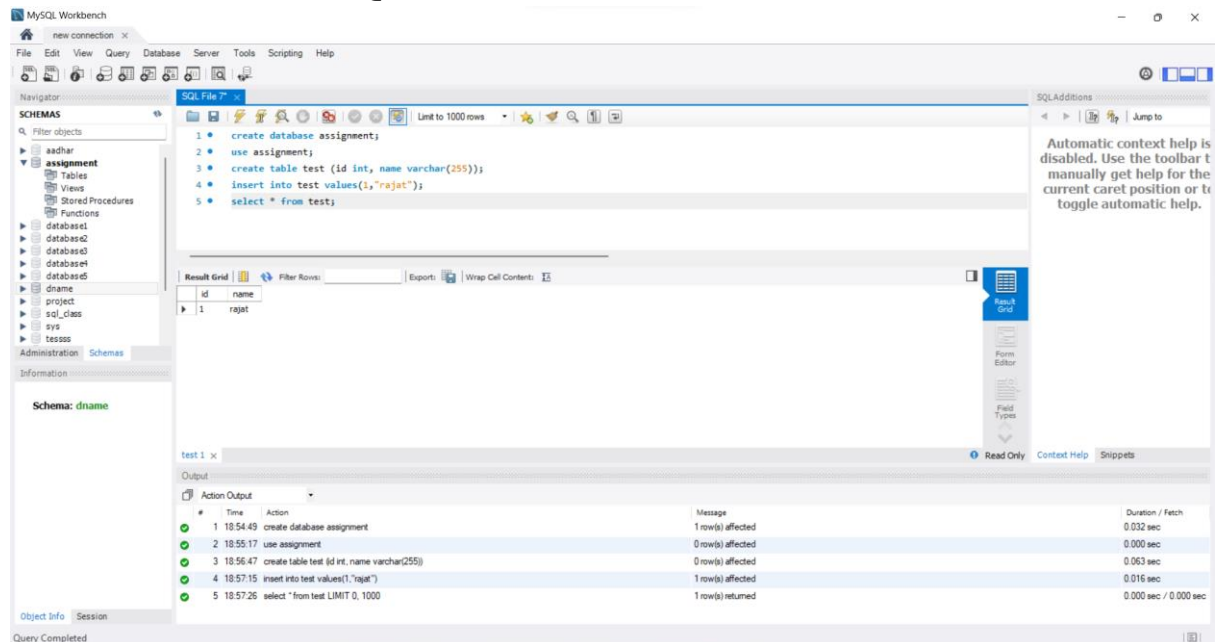


Assignment – II

Name – Siddhartha Sharma

1. Create command in SQL.



The screenshot shows the MySQL Workbench interface with the following SQL commands executed:

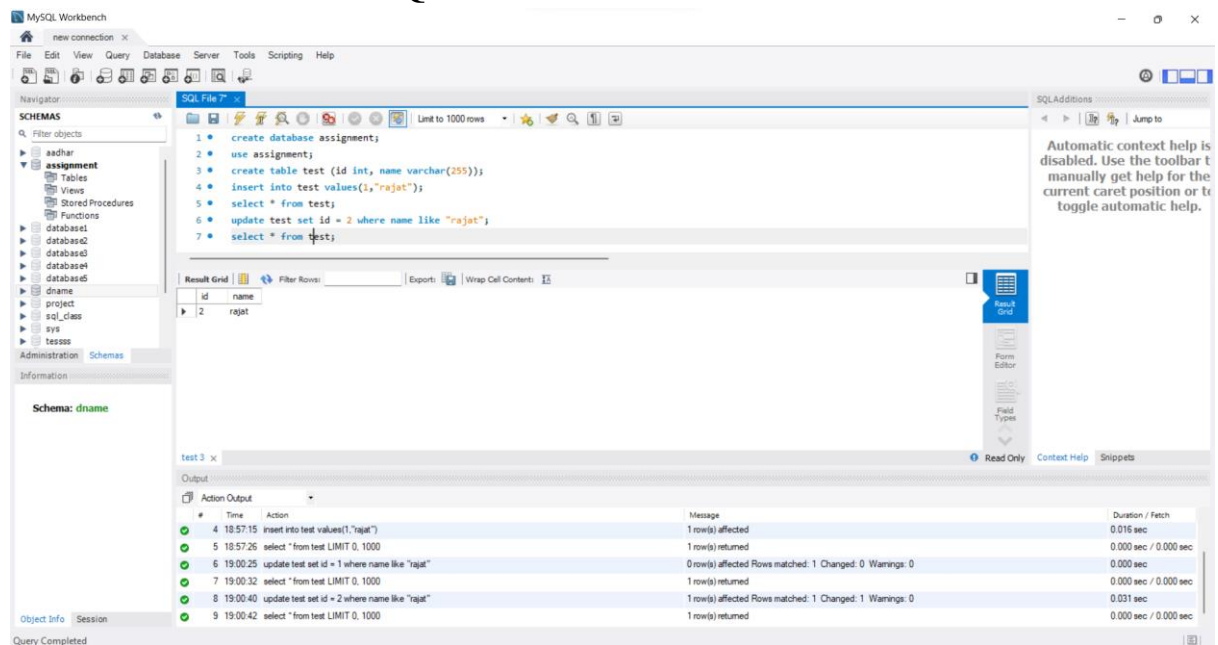
```
1 * create database assignment;
2 * use assignment;
3 * create table test (id int, name varchar(255));
4 * insert into test values(1,"rajat");
5 * select * from test;
```

The Result Grid shows one row with id 1 and name rajat.

The Action Output table shows the following results:

#	Time	Action	Message	Duration / Fetch
1	18:54:49	create database assignment	1 row(s) affected	0.032 sec
2	18:55:17	use assignment	0 row(s) affected	0.000 sec
3	18:56:47	create table test (id int, name varchar(255))	0 row(s) affected	0.063 sec
4	18:57:15	insert into test values(1,"rajat")	1 row(s) affected	0.016 sec
5	18:57:26	select * from test LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

2. UPDATE command in SQL



The screenshot shows the MySQL Workbench interface with the following SQL commands executed:

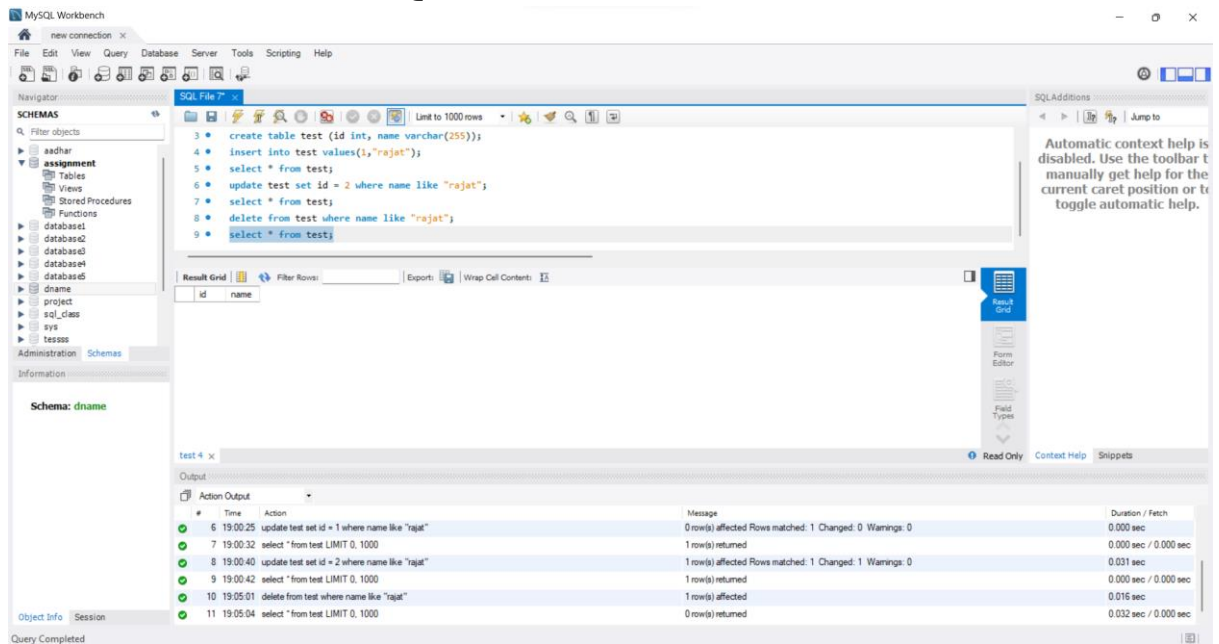
```
1 * create database assignment;
2 * use assignment;
3 * create table test (id int, name varchar(255));
4 * insert into test values(1,"rajat");
5 * select * from test;
6 * update test set id = 2 where name like "rajat";
7 * select * from test;
```

The Result Grid shows one row with id 2 and name rajat.

The Action Output table shows the following results:

#	Time	Action	Message	Duration / Fetch
4	18:57:15	insert into test values(1,"rajat")	1 row(s) affected	0.016 sec
5	18:57:26	select * from test LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
6	19:00:25	update test set id = 1 where name like "rajat"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
7	19:00:32	select * from test LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
8	19:00:40	update test set id = 2 where name like "rajat"	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.031 sec
9	19:00:42	select * from test LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

3. DELETE command in SQL



The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following script:

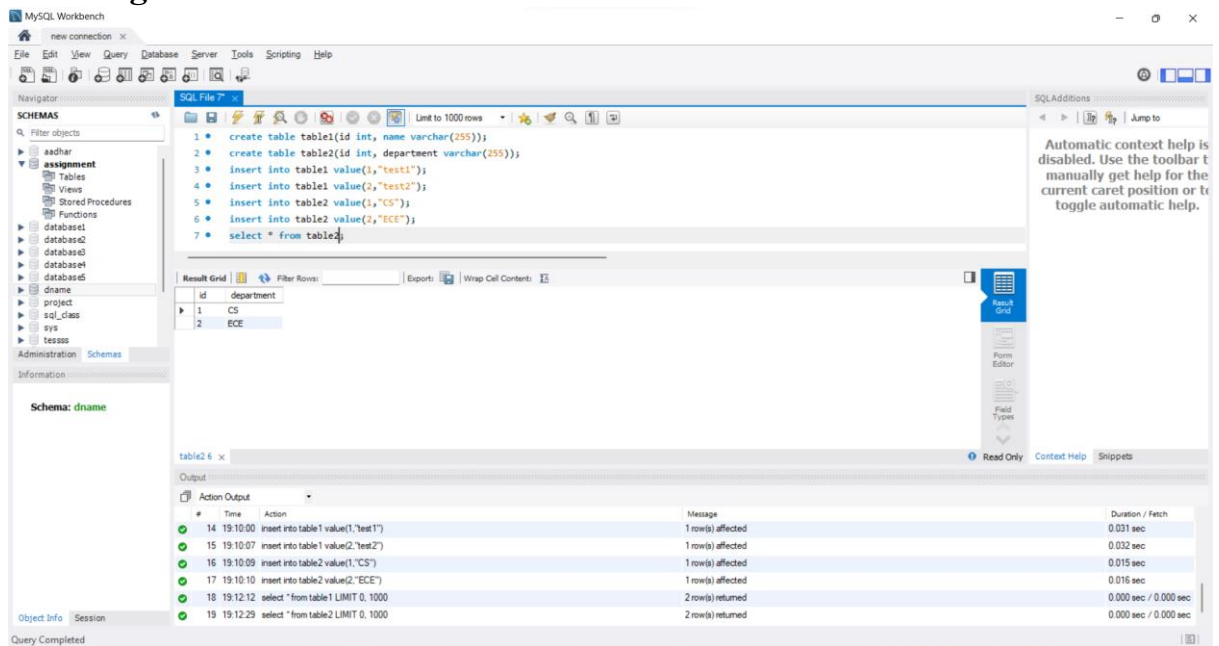
```
3 * create table test (id int, name varchar(255));
4 * insert into test values(1,"rajat");
5 * select * from test;
6 * update test set id = 2 where name like "rajat";
7 * select * from test;
8 * delete from test where name like "rajat";
9 * select * from test;
```

The Action Output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
6	19:00:25	update test set id = 1 where name like "rajat"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
7	19:00:32	select * from test LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
8	19:00:40	update test set id = 2 where name like "rajat"	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.031 sec
9	19:00:42	select * from test LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
10	19:05:01	delete from test where name like "rajat"	1 row(s) affected	0.016 sec
11	19:05:04	select * from test LIMIT 0, 1000	0 row(s) returned	0.032 sec / 0.000 sec

Query Completed

4. Creating tables



The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following script:

```
1 * create table table1(id int, name varchar(255));
2 * create table table2(id int, department varchar(255));
3 * insert into table1 value(1,"test1");
4 * insert into table1 value(2,"test2");
5 * insert into table2 value(1,"CS");
6 * insert into table2 value(2,"ECE");
7 * select * from table1;
```

The Action Output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
14	19:10:00	insert into table1 value(1,"test1")	1 row(s) affected	0.031 sec
15	19:10:07	insert into table1 value(2,"test2")	1 row(s) affected	0.032 sec
16	19:10:09	insert into table2 value(1,"CS")	1 row(s) affected	0.015 sec
17	19:10:10	insert into table2 value(2,"ECE")	1 row(s) affected	0.016 sec
18	19:12:12	select * from table1 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
19	19:12:29	select * from table2 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

MySQL Workbench

new connection x

File Edit View Query Database Server Tools Scripting Help

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SQL File 7

```

1 * create table table1(id int, name varchar(255));
2 * create table table2(id int, department varchar(255));
3 * insert into table1 value(1,"test1");
4 * insert into table1 value(2,"test2");
5 * insert into table2 value(1,"CS");
6 * insert into table2 value(2,"ECE");
7 * select * from table1;

```

Result Grid

id	name
1	test1
2	test2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
13	19:08:43	create table table2(id int, department varchar(255))	0 row(s) affected	0.047 sec
14	19:10:00	insert into table1 value(1,"test1")	1 row(s) affected	0.031 sec
15	19:10:07	insert into table1 value(2,"test2")	1 row(s) affected	0.032 sec
16	19:10:09	insert into table2 value(1,"CS")	1 row(s) affected	0.015 sec
17	19:10:10	insert into table2 value(2,"ECE")	1 row(s) affected	0.016 sec
18	19:12:12	select * from table1 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

5. Left Join

MySQL Workbench

new connection x

File Edit View Query Database Server Tools Scripting Help

Navigator

SQL File 7

```

1 * select * from table1 left join table2 on table1.id = table2.id;

```

Result Grid

id	name	id	department
1	test1	1	CS
2	test2	2	ECE

Output

Action Output

#	Time	Action	Message	Duration / Fetch
15	19:10:07	insert into table1 value(2,"test2")	1 row(s) affected	0.032 sec
16	19:10:09	insert into table2 value(1,"CS")	1 row(s) affected	0.015 sec
17	19:10:10	insert into table2 value(2,"ECE")	1 row(s) affected	0.016 sec
18	19:12:12	select * from table1 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
19	19:12:29	select * from table2 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
20	19:15:29	select * from table1 left join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

6. Inner Join

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query: `select * from table1 inner join table2 on table1.id = table2.id;`. The result grid displays the following data:

	id	name	id	department
1	test1	1	CS	
2	test2	2	ECE	

The output pane shows the execution log with the following actions:

#	Time	Action	Message	Duration / Fetch
16	19:10:09	insert into table2 value(1,'CS')	1 row(s) affected	0.015 sec
17	19:10:10	insert into table2 value(2,'ECE')	1 row(s) affected	0.016 sec
18	19:12:12	select * from table1 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
19	19:12:29	select * from table2 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
20	19:15:29	select * from table1 left join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
21	19:16:29	select * from table1 inner join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

7. Full outer join

The screenshot shows the MySQL Workbench interface. The SQL editor contains the query: `select * from table1 full join table2;`. The result grid displays the following data:

	id	name	id	department
2	test2	1	CS	
1	test1	1	CS	
2	test2	2	ECE	
1	test1	2	ECE	

The output pane shows the execution log with the following actions:

#	Time	Action	Message	Duration / Fetch
18	19:12:12	select * from table1 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
19	19:12:29	select * from table2 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
20	19:15:29	select * from table1 left join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
21	19:16:29	select * from table1 inner join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
22	19:16:56	select * from table1 full join table2 on table1.id = table2.id LIMIT 0, 1000	Error Code: 1054. Unknown column 'table1.id' in 'on clause'	0.016 sec
23	19:17:21	select * from table1 full join table2 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

8. Right Join

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

```
1 • select * from table1 right join table2 on table1.id = table2.id;
```

The Results Grid displays the output of the query:

	id	name	id	department
1	test1	1	CS	
2	test2	2	ECE	

The Output tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
20	19:15:29	select * from table1 left join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
21	19:16:29	select * from table1 inner join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
22	19:16:56	select * from table1 full join table2 on table1.id = table2.id LIMIT 0, 1000	Error Code: 1054. Unknown column 'table1.id' in 'on clause'	0.016 sec
23	19:17:21	select * from table1 full join table2 LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
24	19:18:16	select * from table1 right join table2	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se...	0.000 sec
25	19:18:32	select * from table1 right join table2 on table1.id = table2.id LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

9. Create in MongoDB

The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure:

- localhost:27017
 - admin
 - assignment
 - test
 - config
 - local

The main panel shows the 'assignment.test' collection. The 'Documents' tab is active, displaying a single document:

```
{
  "_id": ObjectId('647364d1f2bb1e5617e46901'),
  "id": 1,
  "name": "test1"
}
```

10. Update in MongoDB

The image shows a MongoDB Compass interface and a terminal window. The terminal window, titled 'mongosh mongodb://127.0.0.1', displays the following commands and output:

```
SyntaxError: Missing semicolon. (1:3)

> 1 | uss assignmentl;
    | ^
    |
    2 |

test> use assignment;
switched to db assignment
assignment> show collections

assignment> db.createCollection("test");
{ ok: 1 }
assignment> show collections:
MongoshInvalidInputError: [COMMON-10001] 'collections:' is not a valid argument for "show".
assignment> show collections;
test
assignment> db.test.insertOne({'id':1,"name":"test1"});
{
  acknowledged: true,
  insertedId: ObjectId("647364d1f2bb1e5617e40901")
}
assignment> db.test.updateOne({'id':1},{ $set:{'id':2}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
assignment> |
```

The MongoDB Compass interface shows the 'assignment.test' collection. The left sidebar lists the databases: 'admin', 'assignment', 'test', 'config', and 'local'. The 'test' database is selected, and the 'assignment.test' collection is displayed. The 'Documents' tab is active, showing a single document with the following fields:

```
{
  _id: ObjectId('647364d1f2bb1e5617e40901')
  id: 2
  name: "test1"
}
```

The top right of the interface shows '1 DOCUMENTS' and '1 INDEXES'. The bottom of the interface shows a search bar and a 'Filter' button.

11.DELETE in MongoDB

```
C:\WINDOWS\system32\cmd.exe x mongosh mongodb://127.0.0.1:27017
2 |

test> use assignment;
switched to db assignment
assignment> show collections

assignment> db.createCollection("test");
{ ok: 1 }
assignment> show collections:
MongoshInvalidInputError: [COMMON-10001] 'collections:' is not a valid argument for "show".
assignment> show collections;
test
assignment> db.test.insertOne({'id':1,"name":"test1"});
{
  acknowledged: true,
  insertedId: ObjectId("647364d1f2bb1e5617e40901")
}
assignment> db.test.updateOne({'id':1},{ $set: {"id":2}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
assignment> db.test.deleteOne({'id':1});
{ acknowledged: true, deletedCount: 0 }
assignment> db.test.deleteOne({'id':2});
{ acknowledged: true, deletedCount: 1 }
assignment> |
```

