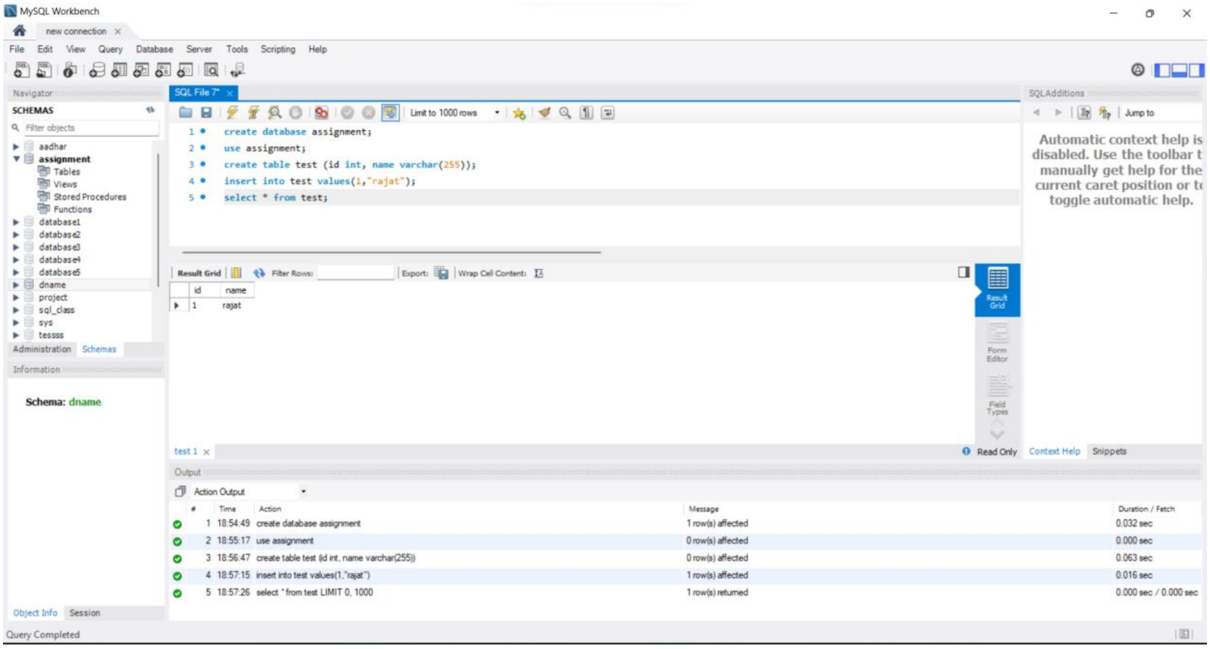
Assignment – II

Name – Rajat Maini

1. **Create command in SQL.**



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

id	name
1	rajat

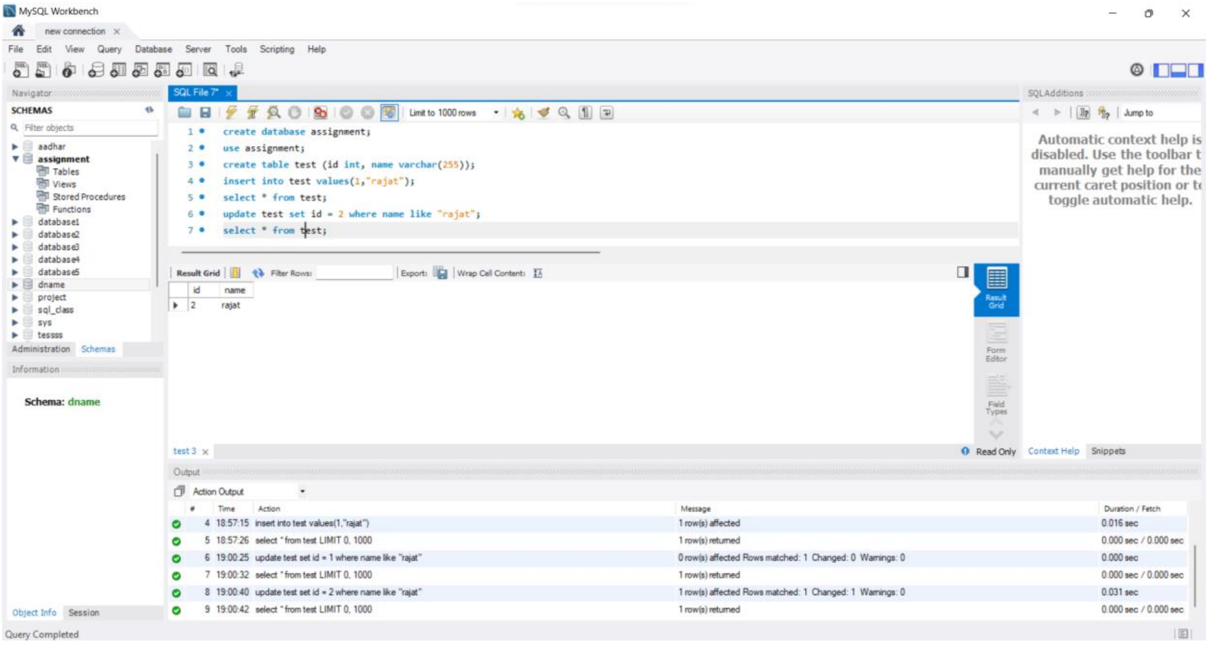
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

Schema: dname

#	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

Query Completed

2. **UPDATE command in SQL**



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

id	name
2	rajat

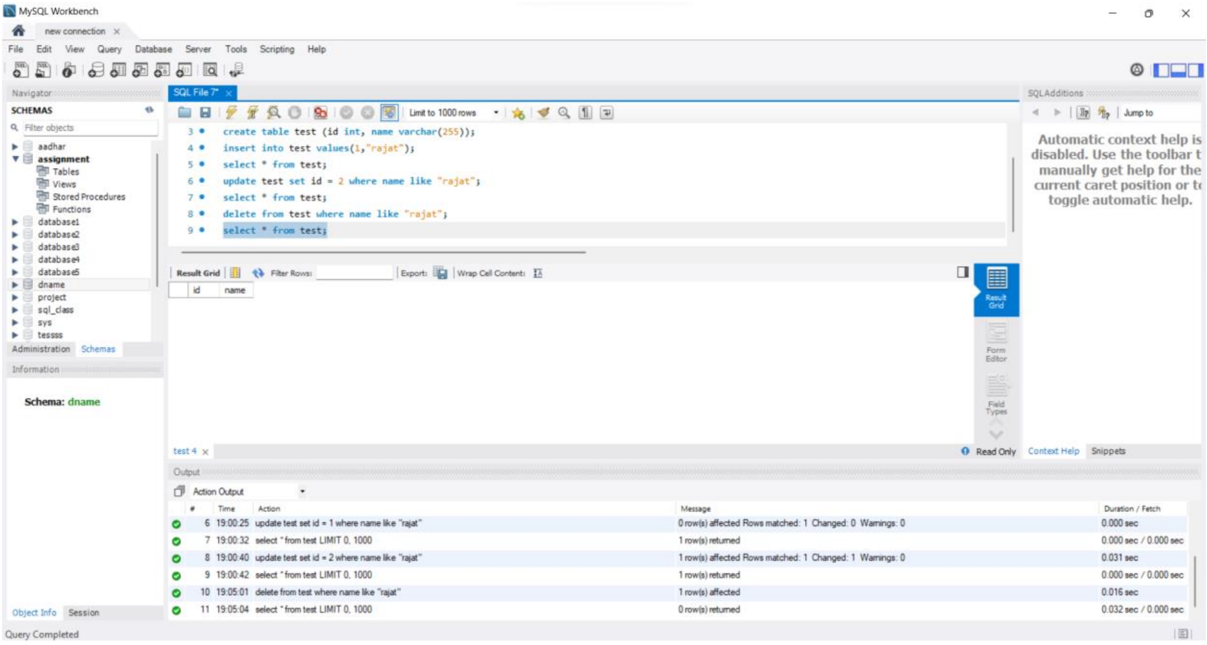
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

Schema: dname

#	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

Query Completed

3. DELETE command in SQL



Schema: dname

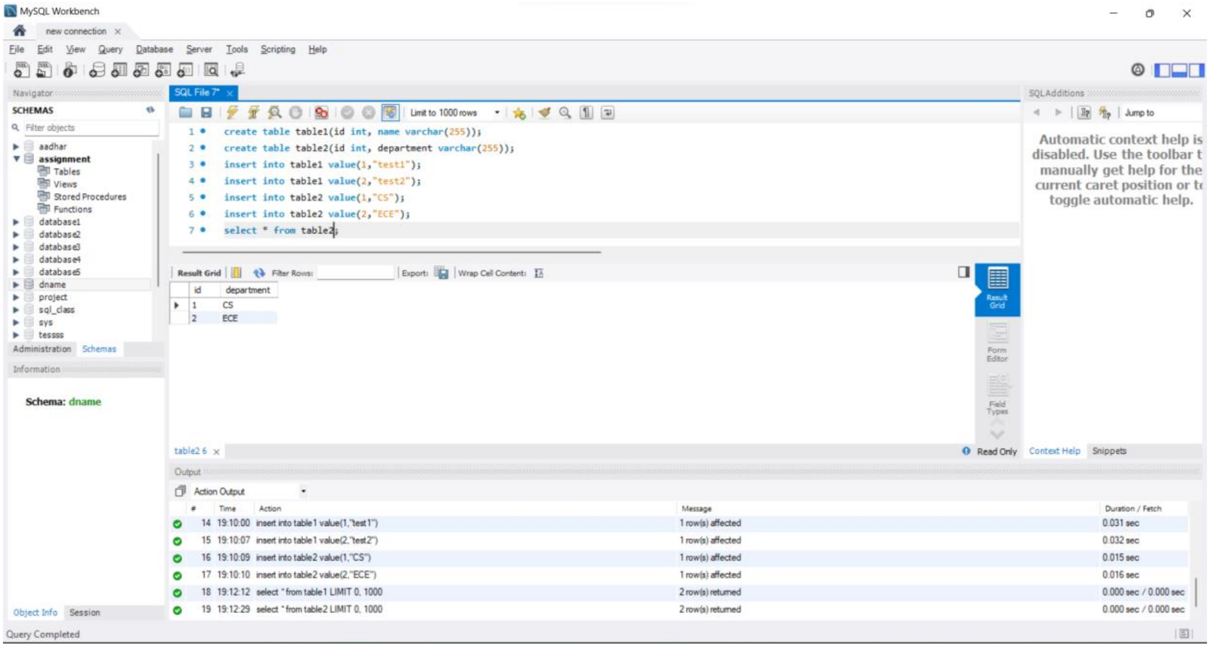
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

```sql
create table test (id int, name varchar(255));
insert into test values(1,"rajat");
select * from test;
update test set id = 2 where name like "rajat";
select * from test;
delete from test where name like "rajat";
select * from test;
```

	id	name

	#	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

4. Creating tables



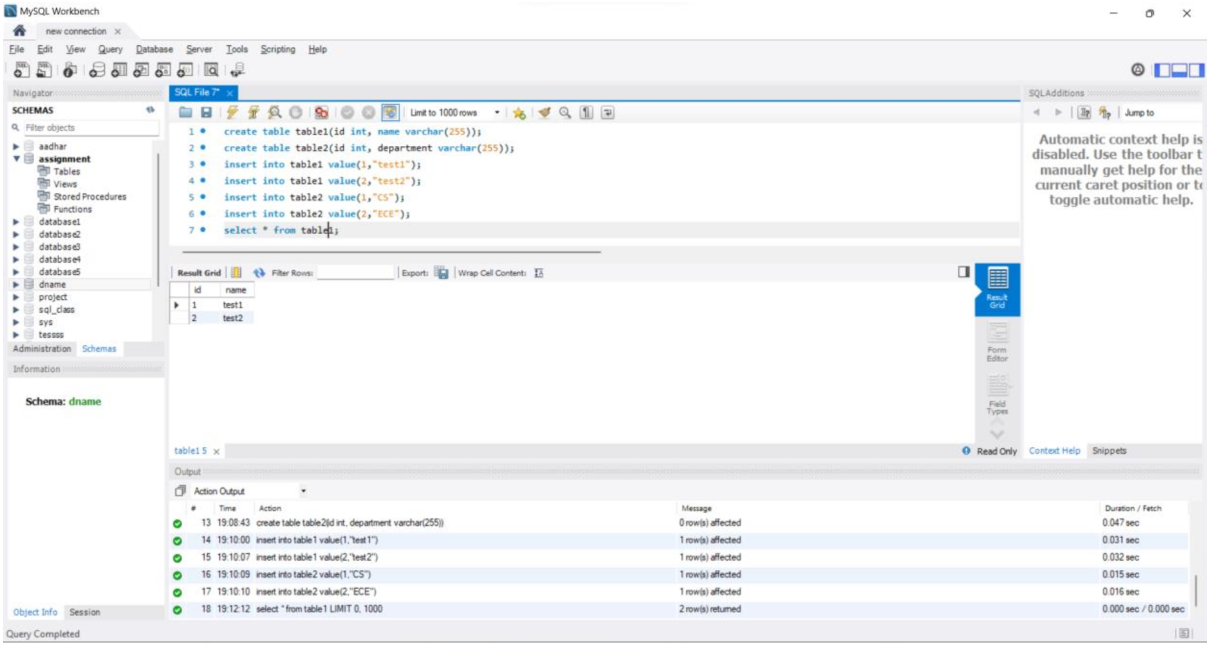
Schema: dname

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

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

	id	department
▶	1	CS
	2	ECE

	#	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

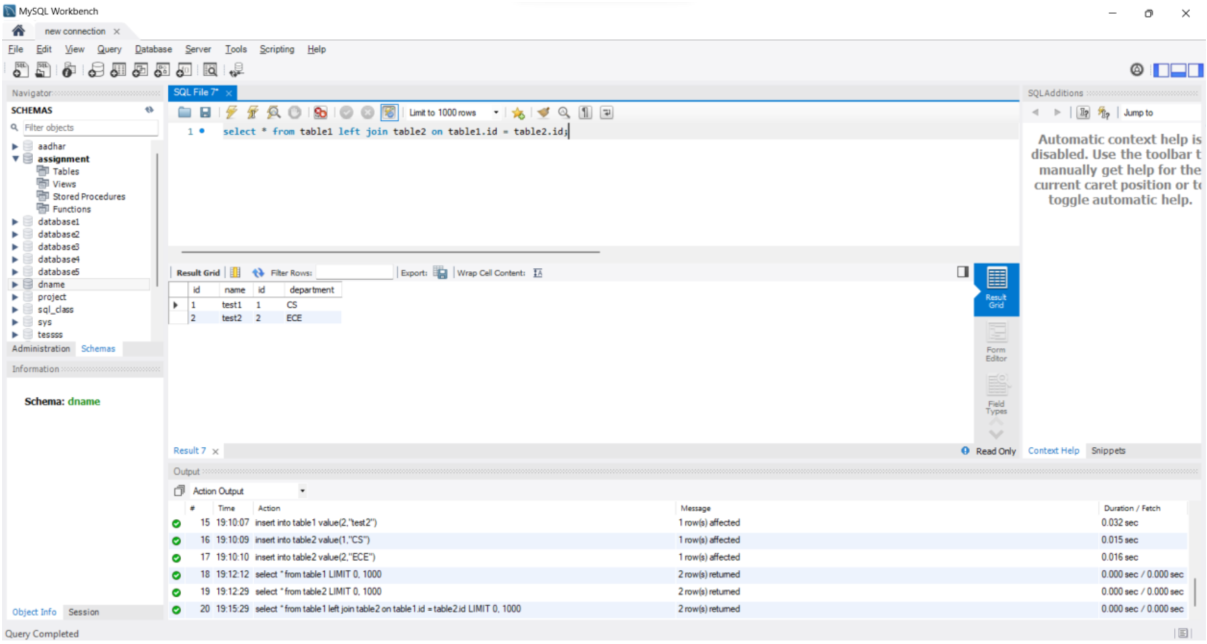


```sql
create table table1(id int, name varchar(255));
create table table2(id int, department varchar(255));
insert into table1 value(1,"test1");
insert into table1 value(2,"test2");
insert into table2 value(1,"CS");
insert into table2 value(2,"ECE");
select * from table1;
```

id	name
1	test1
2	test2

```
#   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
```

5. Left Join

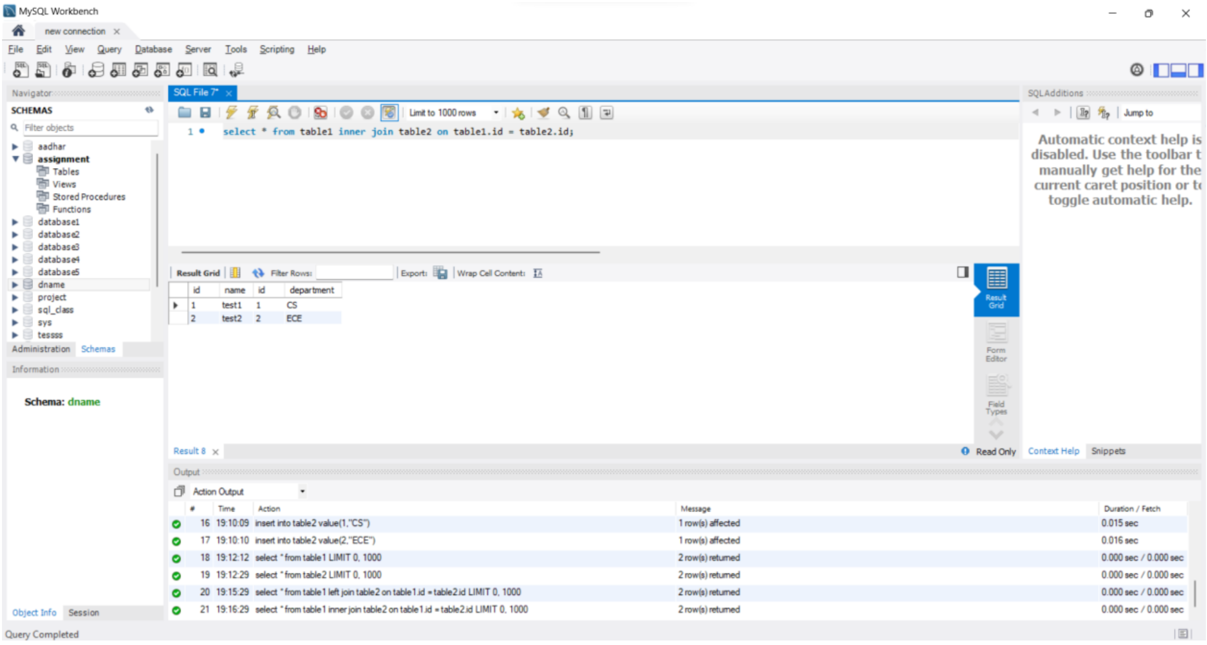


```sql
select * from table1 left join table2 on table1.id = table2.id;
```

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

```
#   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
```

6. Inner Join

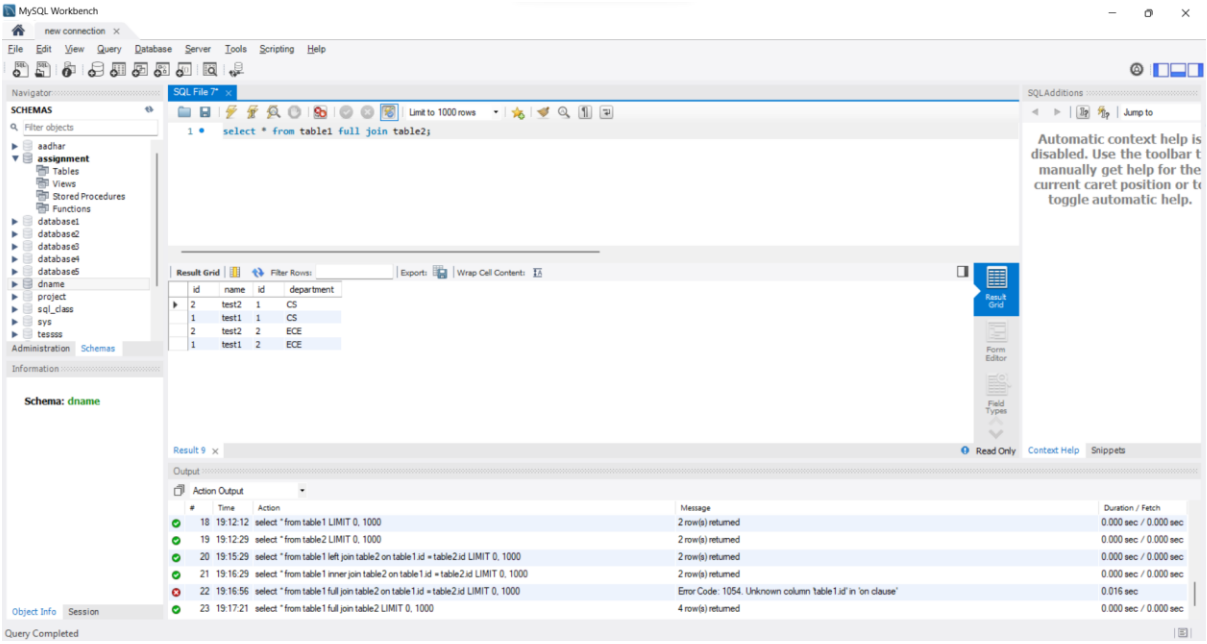


```sql
select * from table1 inner join table2 on table1.id = table2.id;
```

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

#	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

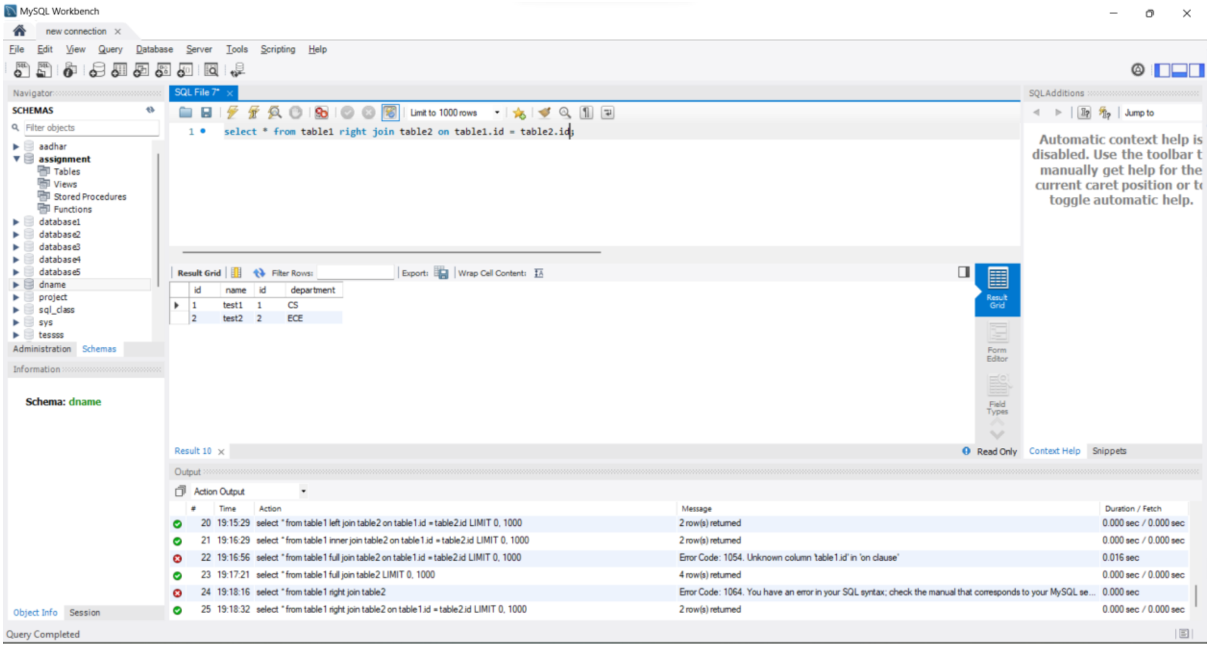


```sql
select * from table1 full join table2;
```

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

#	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



Schema: dname

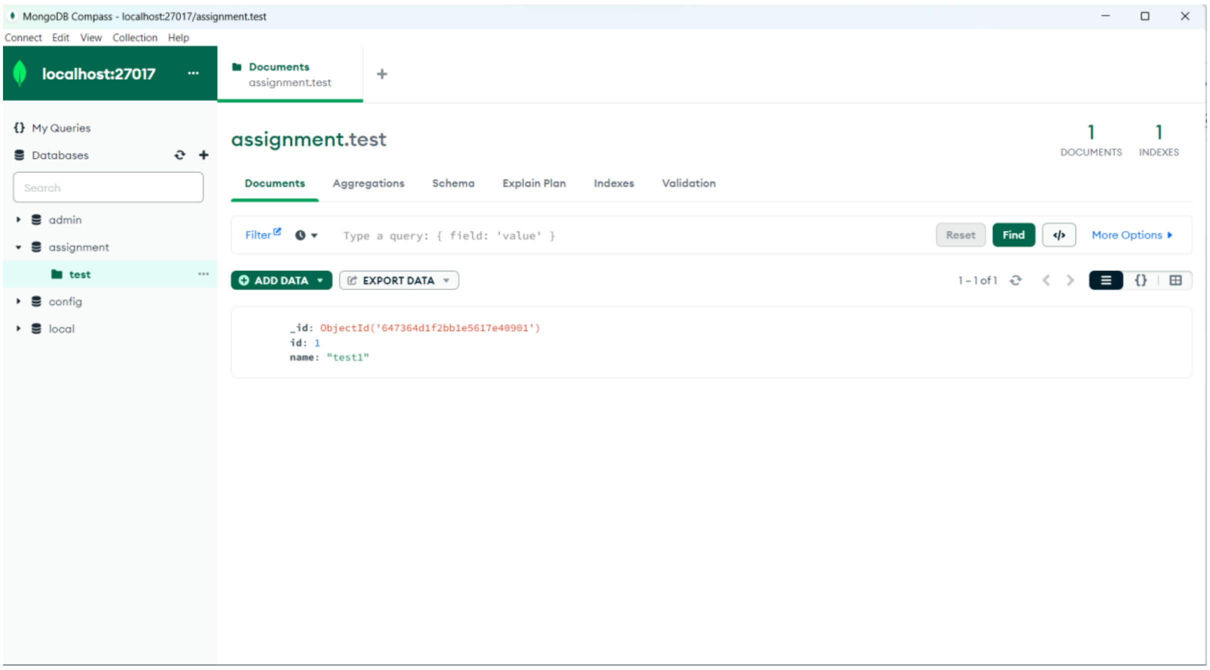
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or to toggle automatic help.

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

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

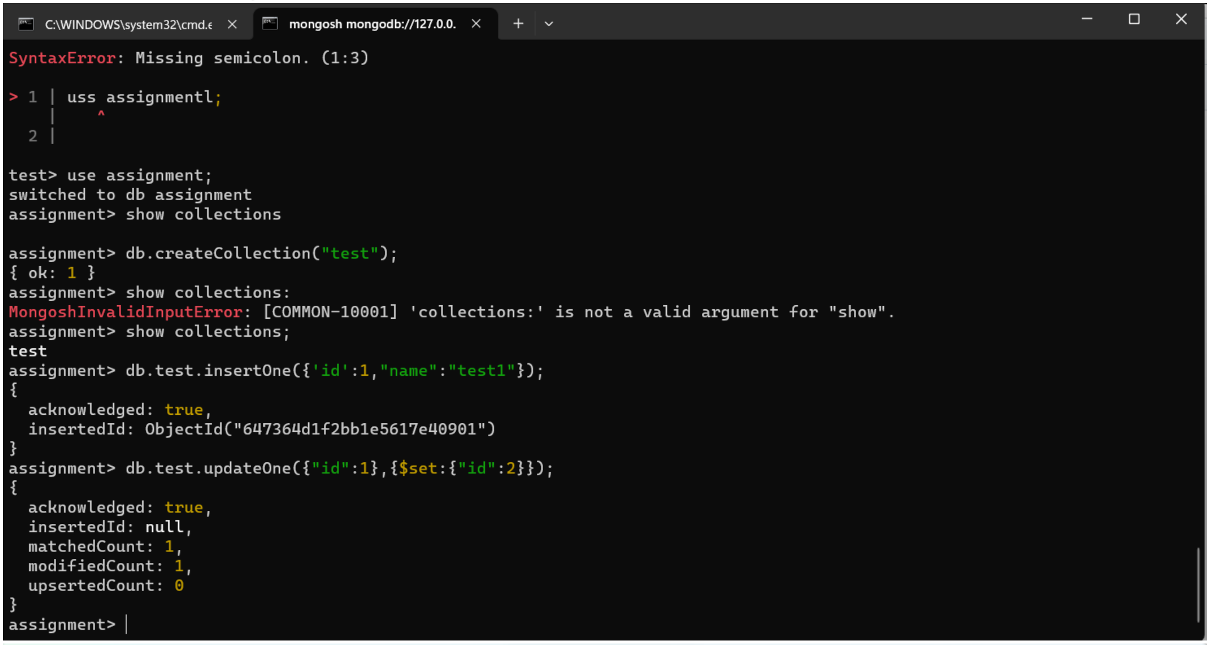
```
#   Time      Action                                                                 Message                                                                                   Duration / Fetch
20  19:15:29  select * from table1 left join table2 on table1.id = table2.id LIMIT 0, 1000   2 row(s) returned                                                                         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

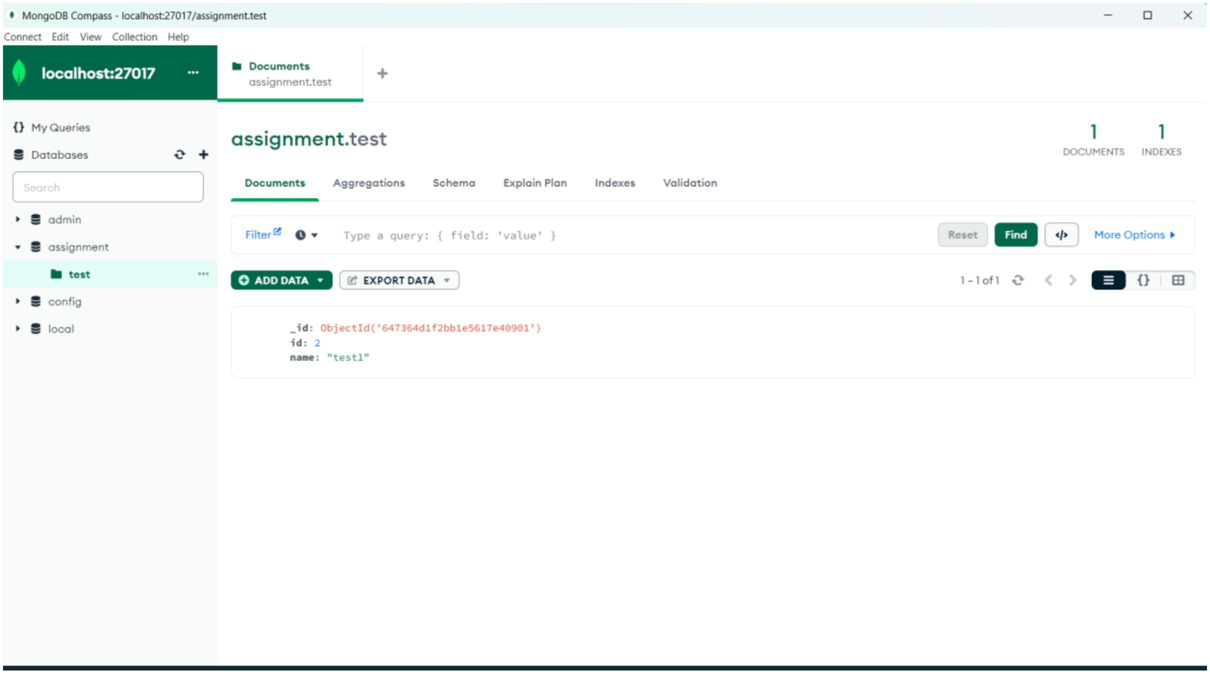


```
_id: ObjectId('647364d1f2bb1e5617e40901')
id: 1
name: "test1"
```

10.Update in MongoDB

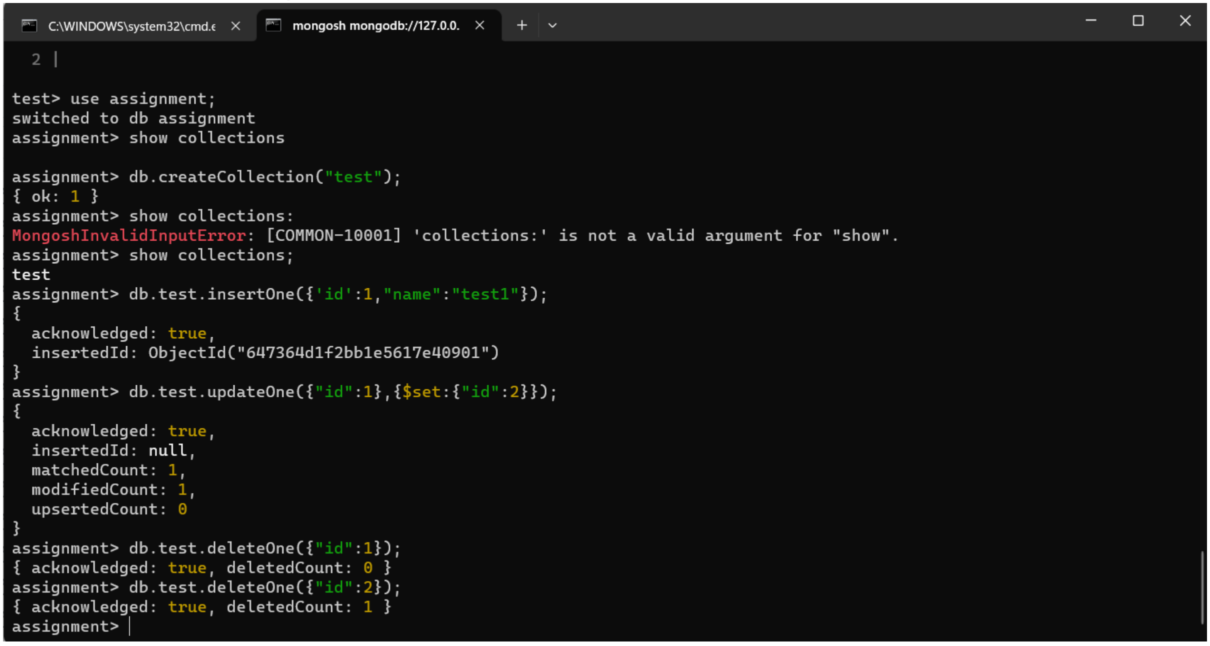


```
SyntaxError: Missing semicolon. (1:3)

> 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> |
```

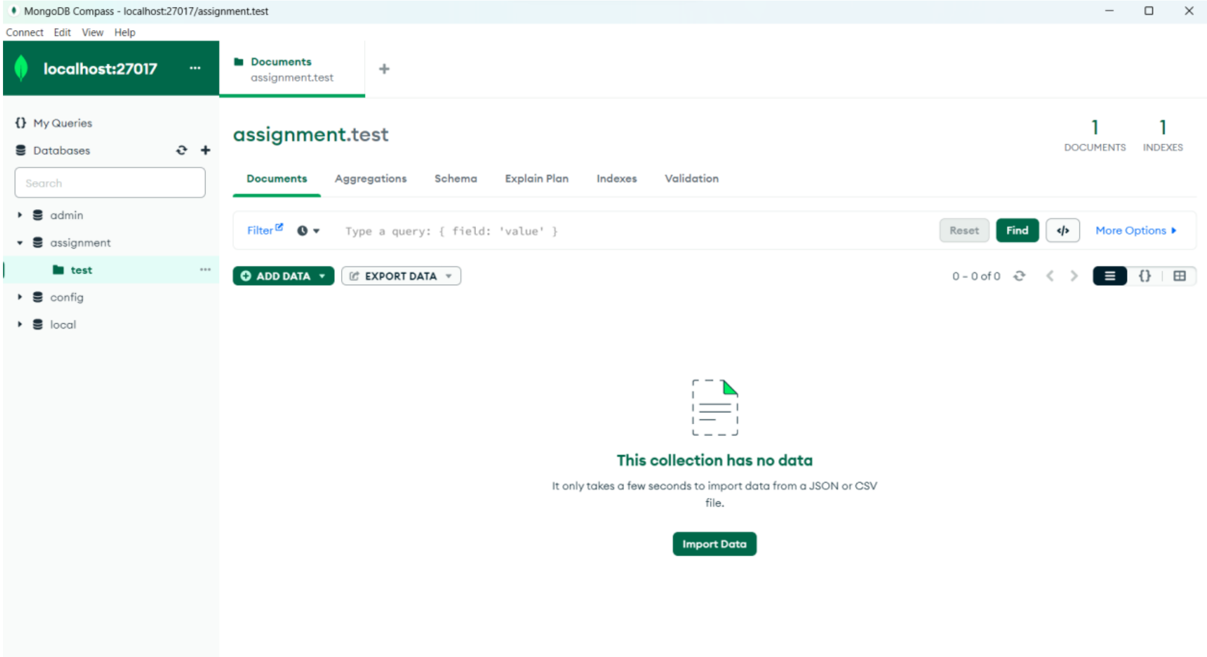


```
_id: ObjectId('647364d1f2bb1e5617e40901')
id: 2
name: "test1"
```

11.DELETE in MongoDB



```
  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>
```



This collection has no data

It only takes a few seconds to import data from a JSON or CSV file.