

SMART BRIDGE: WEEK 2 ASSIGNMENT
CREATE,UPDATE,DELETE AND JOIN: MYSQL
CREATE, UPDATE,DELETE: MONGO

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PART 1- MYSQL COMMANDS

Creating table student and inserting values into it.

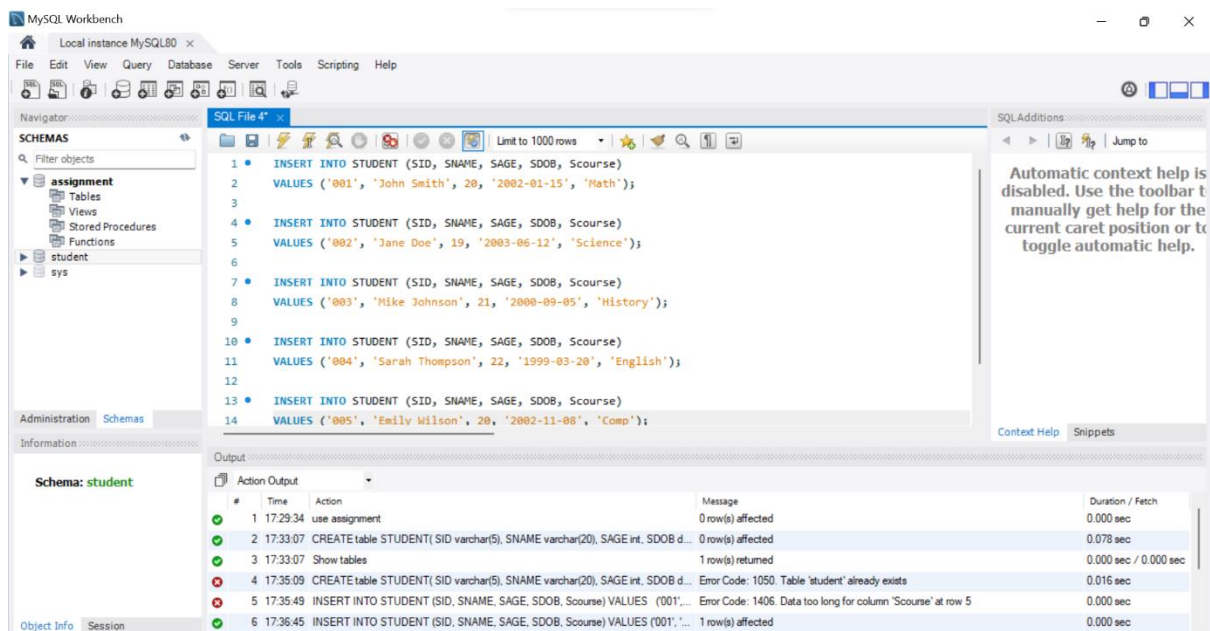
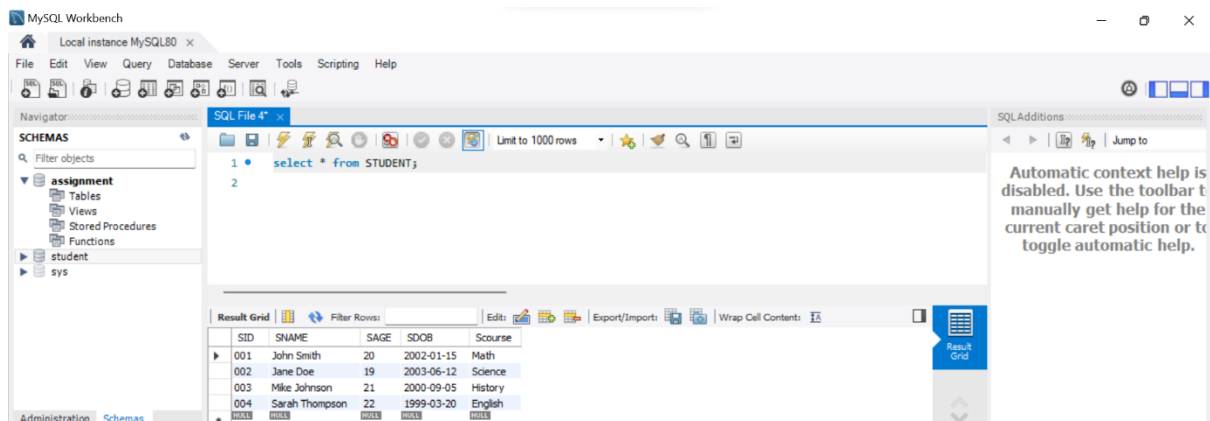


TABLE STUDENT



UPDATING THE TABLE STUDENT (NAME IS UPDATED TO ANJALI JHA WHERE SID IS 004):

The screenshot shows the MySQL Workbench interface with the 'student' schema selected. The SQL editor contains the following query:

```
1 • UPDATE STUDENT
2 • SET SNAME = 'Anjali Jha'
3 • WHERE SID = '004';
4
5 • select * from STUDENT;
6
```

The Result Grid displays the following data:

SID	SNAME	SAGE	SDOB	Scourse
001	John Smith	20	2002-01-15	Math
002	Jane Doe	19	2003-06-12	Science
003	Mike Johnson	21	2000-09-05	History
004	Anjali Jha	22	1999-03-20	English

The Output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
9	17:36:45	INSERT INTO STUDENT (SID, SNAME, SAGE, SDOB, Scourse) VALUES ('004', ...	1 row(s) affected	0.016 sec
10	17:36:45	INSERT INTO STUDENT (SID, SNAME, SAGE, SDOB, Scourse) VALUES ('005', ...	Error Code: 1406: Data too long for column 'Scourse' at row 1	0.000 sec
11	17:37:09	INSERT INTO STUDENT (SID, SNAME, SAGE, SDOB, Scourse) VALUES ('001', ...	Error Code: 1062: Duplicate entry '001' for key 'student.PRIMARY'	0.000 sec
12	17:37:46	select * from STUDENT LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
13	17:40:01	UPDATE STUDENT SET SNAME = 'Anjali Jha' WHERE SID = '004'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec

DELETING FROM TABLE STUDENT:

The screenshot shows the MySQL Workbench interface with the 'student' schema selected. The SQL editor contains the following query:

```
1 • SET SQL_SAFE_UPDATES = 0;
2 • DELETE FROM STUDENT WHERE Scourse = 'History';
3
4 • select * from STUDENT;
5
6
```

The Result Grid displays the following data:

SID	SNAME	SAGE	SDOB	Scourse
001	John Smith	20	2002-01-15	Math
002	Jane Doe	19	2003-06-12	Science
004	Anjali Jha	22	1999-03-20	English

CREATING ANOTHER TABLE COURSES

The screenshot shows the MySQL Workbench interface with the 'student' schema selected. The SQL editor contains the following query:

```
1 • create table courses(
2 •   cid int,
3 •   cname varchar(10),
4 •   primary key(cid));
5
6
7
8
```

The Output pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
40	18:06:33	create table courses	Error Code: 4028: A table must have at least one visible column.	0.000 sec
41	18:06:52	select * from courses LIMIT 0, 1000	Error Code: 1146: Table 'assignment.courses' doesn't exist	0.000 sec
42	18:06:54	select * from courses LIMIT 0, 1000	Error Code: 1146: Table 'assignment.courses' doesn't exist	0.000 sec
43	18:07:12	create table courses	Error Code: 4028: A table must have at least one visible column.	0.000 sec
44	18:07:43	create table courses (cid int, cname varchar(10))	Error Code: 1064: You have an error in your SQL syntax; check the manual that corr...	0.000 sec
45	18:08:27	create table courses (cid int, cname varchar(10), primary key(cid))	0 row(s) affected	0.015 sec

INSERTING VALUE INTO COURSES:

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

```
2 • INSERT INTO COURSES (CID, CNAME)
3 VALUES ('001', 'Math');
4
5 • INSERT INTO COURSES (CID, CNAME)
6 VALUES ('002', 'Science');
7
8 • INSERT INTO COURSES (CID, CNAME)
9 VALUES ('003', 'History');
10
11 • INSERT INTO COURSES (CID, CNAME)
12 VALUES ('004', 'English');
13
14 • INSERT INTO COURSES (CID, CNAME)
15 VALUES ('005', 'Computer');
```

The Output tab shows the execution results:

#	Time	Action	Message	Duration / Fetch
45	18:08:27	create table courses(cid int, cname varchar(10), primary key(cid))	0 row(s) affected	0.015 sec
46	18:09:29	INSERT INTO COURSES (CID, CNAME) VALUES ('001', 'Math')	1 row(s) affected	0.016 sec
47	18:09:29	INSERT INTO COURSES (CID, CNAME) VALUES ('002', 'Science')	1 row(s) affected	0.000 sec
48	18:09:29	INSERT INTO COURSES (CID, CNAME) VALUES ('003', 'History')	1 row(s) affected	0.000 sec
49	18:09:29	INSERT INTO COURSES (CID, CNAME) VALUES ('004', 'English')	1 row(s) affected	0.015 sec
50	18:09:29	INSERT INTO COURSES (CID, CNAME) VALUES ('005', 'Computer')	1 row(s) affected	0.000 sec

DISPLAYING TABLE COURSES:

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

```
1 • select * from COURSES;
```

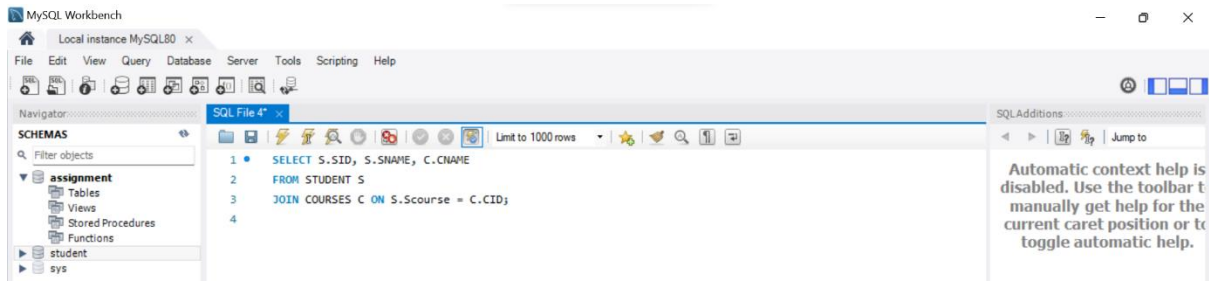
The Result Grid shows the data from the COURSES table:

cid	cname
1	Math
2	Science
3	History
4	English
5	Computer

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

```
1 • SELECT S.SID, S.SNAME, C.CNAME
2 FROM STUDENT S
3 JOIN COURSES C ON S.Scourse = C.CID;
```

JOINING TABLE STUDENT AND COURSES WITH THE CONDITION THAT SID=CID



PART 2: MONGO DB COMMANDS (USING MONGO DB COMPASS)

CREATING A COLLECTION:

```

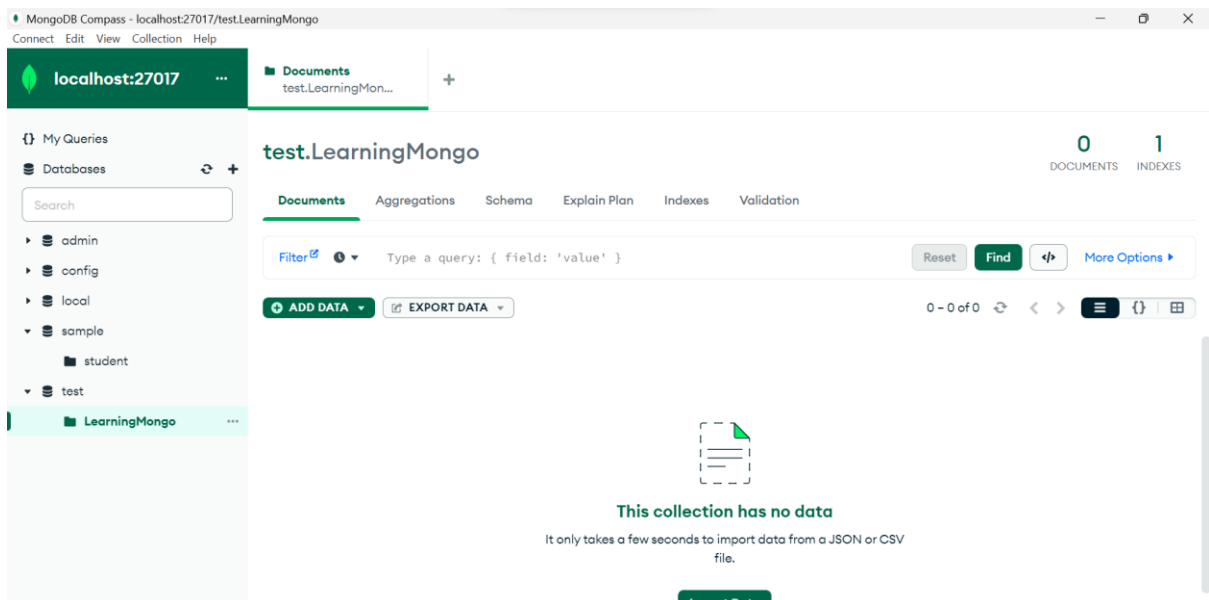
mongosh mongodb://localhost/
Please enter a MongoDB connection string (Default: mongodb://localhost/): mongodb://localhost/
mongodb://localhost/
Current Mongosh Log ID: 647350b4161a3db9d0ef82a9
Connecting to: mongodb://localhost/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.9.1
Using MongoDB: 6.0.6
Using Mongosh: 1.9.1

For mongosh info see: https://docs.mongodb.com/mongosh-shell/

-----
The server generated these startup warnings when booting
2023-05-25T19:12:38.935+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> db.createCollection('LearningMongo')
{ ok: 1 }
test> |

```



INSERTING DOCUMENTS INTO OUR COLLECTION:

```
test> db.LearningMongo.insertOne({'name':'Anjali'})
{
  acknowledged: true,
  insertedId: ObjectId("647351ba161a3db9d0ef82ab")
}
test> db.LearningMongo.insertMany([
...   { name: 'Aaashi Jha', age: 13 },
...   { name: 'Niharika Palayil', age: 20 },
...   { name: 'Siddharth Kumar', age: 21 }
... ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6473526e161a3db9d0ef82ac"),
    '1': ObjectId("6473526e161a3db9d0ef82ad"),
    '2': ObjectId("6473526e161a3db9d0ef82ae")
  }
}
```

MongoDB Compass - localhost:27017/test.LearningMongo

Connect Edit View Collection Help

localhost:27017 Documents test.LearningMon...

My Queries Databases Search

admin config local sample student test LearningMongo

test.LearningMongo 4 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT DATA 1 - 4 of 4

_id: ObjectId('6473519c161a3db9d0ef82aa')	name: "Anjali"
_id: ObjectId('6473526e161a3db9d0ef82ac')	name: "Aaashi Jha" age: 13
_id: ObjectId('6473526e161a3db9d0ef82ad')	name: "Niharika Palayil" age: 20
_id: ObjectId('6473526e161a3db9d0ef82ae')	name: "Siddharth Kumar"

UPDATING OUR COLLECTION:

MongoDB Compass - localhost:27017/test.LearningMongo

Connect Edit View Collection Help

localhost:27017 Documents test.LearningMon...

My Queries Databases Search

config local sample student test LearningMongo

test.LearningMongo 4 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT DATA 1 - 4 of 4

_id: ObjectId('6473526e161a3db9d0ef82ad')	name: "Niharika Sharma" age: 20
_id: ObjectId('6473526e161a3db9d0ef82ac')	name: "Aaashi Jha" age: 13
_id: ObjectId('6473526e161a3db9d0ef82ad')	name: "Niharika Palayil" age: 20
_id: ObjectId('6473526e161a3db9d0ef82ae')	name: "Siddharth Kumar"

```
>_MONGOSH
> db.LearningMongo.updateOne(
  { name: 'Niharika Palayil' },
  { $set: { name: 'Niharika Sharma' } }
);
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
}
```

DELETING THE RECORDS WHERE AGE IS NOT MENTIONED:

(Deletes id where name is Anjali and no age is mentioned)

MongoDB Compass - localhost:27017/test.LearningMongo

Connect Edit View Collection Help

localhost:27017

Documents
test.LearningMon...

My Queries

Databases

Search

config

local

sample

student

test

LearningMongo

test.LearningMongo

4 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' }

Reset Find More Options

ADD DATA EXPORT DATA

1 - 3 of 3

```
{
  "_id": ObjectId('6473526e161a3db9d0ef82ac'),
  "name": "Anashi Jha",
  "age": 13
}
```

```
> MONGOSH
acknowledged: true,
deletedCount: 0
}
> db.LearningMongo.deleteMany({ age: { $exists: false } });
< {
  acknowledged: true,
  deletedCount: 1
}
test>
```