

JAVA SPRING BOOT ASSESSMENT - 2

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MySQL

#create update delete commands in mysql;

show databases;

use sujit;

	Database
►	information_schema
	mysql
	performance_schema
	sujit
	sys

create table student(id int not null,

name varchar(50) not null,

age int not null,

primary key(id));

show tables;

alter table student add rollno varchar(10) not null;

alter table student add address varchar(10) not null;

describe student;

alter table student drop column address;

	Field	Type	Null	Key	Default	Extra
►	id	int	NO	PRI	NULL	
	name	varchar(50)	NO		NULL	
	age	int	NO		NULL	
	rollno	varchar(10)	NO		NULL	
	address	varchar(10)	NO		NULL	

insert into student values(101,'mandar',15,'20bds0001'),

(102,'sujit',21,'20bds0002'),

```
(103,'ajay',22,'20bds0003'),  
(104,'vijay',18,'20bds0004'),  
(105,'krishna',20,'20bds0005');
```

```
select * from student;
```

	id	name	age	rollno
▶	101	mandar	15	20bds0001
	102	sujit	21	20bds0002
	103	ajay	22	20bds0003
	104	vijay	18	20bds0004
	105	krishna	20	20bds0005
•	NULL	NULL	NULL	NULL

```
update student set rollno='20bds0098' where id='102';
```

```
select * from student;
```

	id	name	age	rollno
▶	101	mandar	15	20bds0001
	102	sujit	21	20bds0098
	103	ajay	22	20bds0003
	104	vijay	18	20bds0004
	105	krishna	20	20bds0005
•	NULL	NULL	NULL	NULL

```
delete from student where id=103;
```

```
select * from student;
```

	id	name	age	rollno
▶	101	mandar	15	20bds0001
	102	sujit	21	20bds0098
	104	vijay	18	20bds0004
	105	krishna	20	20bds0005
•	NULL	NULL	NULL	NULL

Joins

```
#joins
```

```
create table course(cid int not null,  
name varchar(50) not null,  
primary key(cid));
```

```
insert into course values(101,'java'),
```

```
(102,'cpp'),
```

```
(103,'network'),
```

```
(104,'webprogramming');
```

```
select * from course;
```

	cid	name
▶	101	java
	102	cpp
	103	network
	104	webprogramming
*	NULL	NULL

```
select * from student inner join course on course.cid=student.id;
```

	id	name	age	rollno	cid	name
▶	101	mandar	15	20bds0001	101	java
	102	sujit	21	20bds0098	102	cpp
	104	vijay	18	20bds0004	104	webprogramming

```
select * from student left join course on course.cid=student.id;
```

	id	name	age	rollno	cid	name
▶	101	mandar	15	20bds0001	101	java
	102	sujit	21	20bds0098	102	cpp
	104	vijay	18	20bds0004	104	webprogramming
	105	krishna	20	20bds0005	NULL	NULL

```
select * from student right join course on course.cid=student.id;
```

	id	name	age	rollno	cid	name
▶	101	mandar	15	20bds0001	101	java
	102	sujit	21	20bds0098	102	cpp
	NULL	NULL	NULL	NULL	103	network
	104	vijay	18	20bds0004	104	webprogramming

```
select * from student inner join course on course.cid=student.id where id=101;
```

	id	name	age	rollno	cid	name
▶	101	mandar	15	20bds0001	101	java

Mongo dB assignment

To View databases

show dbs

```
sujit> show dbs
admin      40.00 KiB
config    108.00 KiB
local      40.00 KiB
sujit      72.00 KiB
```

Use database

use sujit

```
sujit> use sujit
already on db sujit
```

#create operations

Inserting one row

```
db.emp.insertOne({
...   'name': 'sujit',
...   'lang': 'JavaScript',
...   'member_since': 7
... })
```

```
sujit> db.emp.insertOne({
...   'name': 'sujit',
...   'lang': 'JavaScript',
...   'member_since': 7
... })
{
  acknowledged: true,
  insertedId: ObjectId("6473725981ed3be528f979f5")
}
```

Inserting many rows

```
db.emp.insertMany([
```

```

...   'name': 'mandar',
...   'lang': 'cpp',
...   'exp': 5
... },
...   {'name': 'sunit',
...     'lang': 'Python',
...     'exp': 3
...   },
...   {'name': 'devesh',
...     'lang': 'Java',
...     'exp': 4
...   })
... })

```

```

{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6473713681ed3be528f979f2"),
    '1': ObjectId("6473713681ed3be528f979f3"),
    '2': ObjectId("6473713681ed3be528f979f4")
  }
}

```

db.emp.find()

gives all the content in the employee collection.

db.emp.find()

```

sujit> db.emp.find({name:'sujit'})
[
  {
    _id: ObjectId("64736eff516a7939cb517db1"),
    name: 'sujit',
    lang: 'javascript',
    exp: 5
  },
  {
    _id: ObjectId("6473725981ed3be528f979f5"),
    name: 'sujit',
    lang: 'JavaScript',
    member_since: 7
  }
]

```

```
db.emp.updateOne({})
```

```
sujit> db.emp.updateOne({name: 'mandar'},
...   {$set: {'name': 'sujata',
...     'lang': 'JavaScript',
...     'exp': 51
...   }}, {upsert: true})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
db.emp.remove({name: 'sujit'})
```

```
sujit> db.emp.remove({name: 'sujit'})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 2 }
sujit> |
```