SMARTBRIDGE EXTERNSHIP Modern Application Development (Java Spring Boot)

Week 2 Assignment

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1) Create, update, delete commands in mysql

Create

```sql
-- create
CREATE TABLE UserInfo(
  Username varchar(255),
  Emailid varchar(255),
  Password varchar(255),
  Contact int
);
```

UserInfo

Username	Emailid	Password	Contact
empty			

```sql
-- insert
INSERT INTO UserInfo VALUES
('clara01', 'clara@gmail.com', 'nowhere7', 9876887790),
('henry02', 'henry@gmail.com', '12helo78', 9577744490),
('raju03', 'raju@gmail.com', 'mark99', 6476744553),
('larry04', 'larry@gmail.com', 'kill0nyes', 9260081246);
```

UserInfo

Username	Emailid	Password	Contact
clara01	clara@gmail.com	nowhere7	9876887790
henry02	henry@gmail.com	12helo78	9577744490
raju03	raju@gmail.com	mark99	6476744553
larry04	larry@gmail.com	kill0nyes	9260081246

Delete

```
-- delete
DELETE FROM UserInfo WHERE Username='henry02'
```

UserInfo

Username	Emailid	Password	Contact
clara01	clara@gmail.com	nowhere7	9876887790
raju03	raju@gmail.com	mark99	6476744553
larry04	larry@gmail.com	kill0nyes	9260081246

Update

```
--update
UPDATE UserInfo
SET Contact = 6433445577, Emailid = 'gogirl@gmail.com'
WHERE Username = 'clara01';
```

UserInfo

Username	Emailid	Password	Contact
clara01	gogirl@gmail.com	nowhere7	6433445577
raju03	raju@gmail.com	mark99	6476744553
larry04	larry@gmail.com	kill0nyes	9260081246

2) Create tables and perform JOINS in mysql

Inner joins

UserInfo

Username	Emailid	Password	Contact
clara01	gogirl@gmail.com	nowhere7	6433445577
raju03	raju@gmail.com	mark99	6476744553
larry04	larry@gmail.com	kill0nyes	9260081246

```
CREATE TABLE Purchase(
  Username varchar(255),
  Itemid int
);

INSERT INTO Purchase VALUES
('larry04', 1003),
('raju03', 1006);
```

Purchase

Username	Itemid
larry04	1003
raju03	1006

```
SELECT Purchase.Itemid, UserInfo.Contact
FROM Purchase
INNER JOIN UserInfo ON Purchase.Username=UserInfo.Username;
```

Output

Itemid	Contact
1003	9260081246
1006	6476744553

Left joins

```sql
SELECT UserInfo.Username, UserInfo.Emailid, UserInfo.Contact, Purchase.Itemid
FROM UserInfo
LEFT JOIN Purchase ON UserInfo.Username = Purchase.Username;
```

Output

Username	Emailid	Contact	Itemid
clara01	gogirl@gmail.com	6433445577	
raju03	raju@gmail.com	6476744553	1006
larry04	larry@gmail.com	9260081246	1003

3) Create, update, delete commands in mongodb

Create

```
use student
db.student.insertMany([
  { Name: "Harry", Rank: 5 },
  { Name: "Nimi", Rank: 4 },
  { Name: "Jason", Rank: 3 }
])
db.student.find({}).pretty()
```

Output

```
 mycompiler_mongodb> switched to db student
student> ... ... ... ... {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64738fe1f790d3a9d4459689"),
    '1': ObjectId("64738fe1f790d3a9d445968a"),
    '2': ObjectId("64738fe1f790d3a9d445968b")
  }
}
student> [
  { _id: ObjectId("64738fe1f790d3a9d4459689"), Name: 'Harry', Rank: 5 },
  { _id: ObjectId("64738fe1f790d3a9d445968a"), Name: 'Nimi', Rank: 4 },
  { _id: ObjectId("64738fe1f790d3a9d445968b"), Name: 'Jason', Rank: 3 }
]
student>

[Execution complete with exit code 0]
```

Update

```
use student
db.student.insertMany([
  { Name: "Harry", Rank: 5 },
  { Name: "Nimi", Rank: 4 },
  { Name: "Jason", Rank: 3 }
])
db.student.find({}).pretty()
db.student.updateOne({ Rank: 3 }, { $set: { Rank: 1 } })
db.student.find({}).pretty()
```

```
student> {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
student> [
  { _id: ObjectId("64739103a6450f45c156be0b"), Name: 'Harry', Rank: 5 },
  { _id: ObjectId("64739103a6450f45c156be0c"), Name: 'Nimi', Rank: 4 },
  { _id: ObjectId("64739103a6450f45c156be0d"), Name: 'Jason', Rank: 1 }
]
student>
```

Delete

```
use student
db.student.insertMany([
  { Name: "Harry", Rank: 5 },
  { Name: "Nimi", Rank: 4 },
  { Name: "Jason", Rank: 3 }
])
db.student.find({}).pretty()
db.student.deleteOne({Name:"Harry"})
db.student.find({}).pretty()
```

```
student> [
  { _id: ObjectId("647391f94ca48d662a873b44"), Name: 'Nimi', Rank: 4 },
  { _id: ObjectId("647391f94ca48d662a873b45"), Name: 'Jason', Rank: 3 }
]
student>
```