Modern Application Development (Java SpringBoot)

Assignment – 2

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Create tables and perform join

create database db;

CREATE TABLE users (

  id INT PRIMARY KEY,

  name VARCHAR(50),

  email VARCHAR(50)

);

INSERT INTO users (id, name, email)

VALUES

  (1, 'John Doe', 'john.doe@example.com'),

  (2, 'Jane Smith', 'jane.smith@example.com'),

  (3, 'Robert Johnson', 'robert.johnson@example.com');

CREATE TABLE orders (

  id INT PRIMARY KEY,

  user_id INT,

  product_name VARCHAR(50),

  price DECIMAL(10, 2)

);

INSERT INTO orders (id, user_id, product_name, price)

VALUES
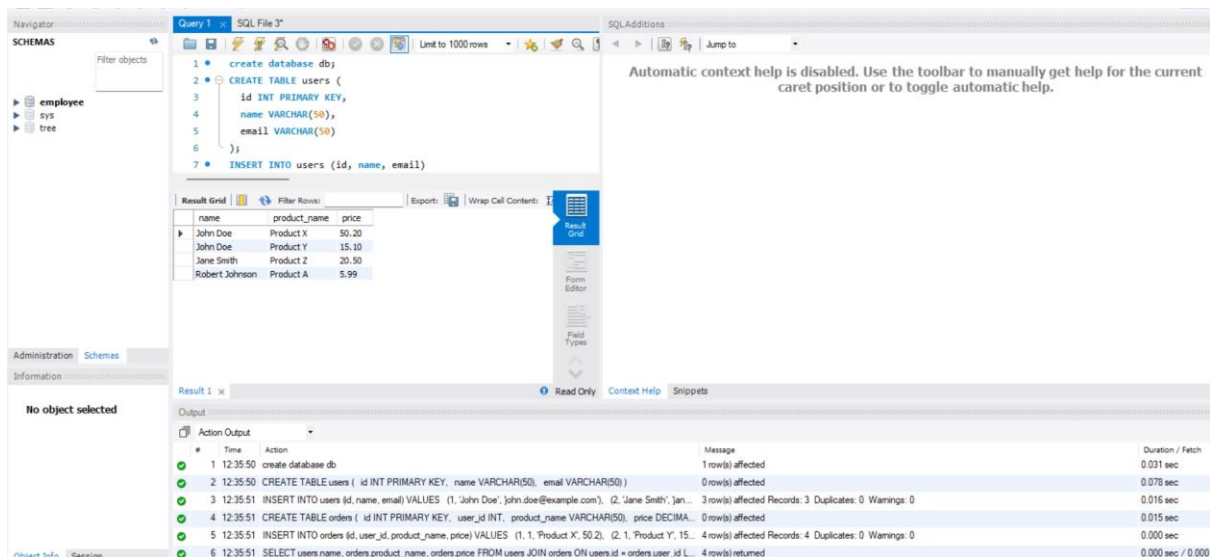
  (1, 1, 'Product X', 50.2),

  (2, 1, 'Product Y', 15.1),

```
  (3, 2, 'Product Z', 20.50),

  (4, 3, 'Product A', 5.99);

SELECT users.name, orders.product_name, orders.price

FROM users

JOIN orders ON users.id = orders.user_id;
```


Create update delete commands in mysql examples

```
CREATE TABLE list (

  id INT PRIMARY KEY,

  name VARCHAR(50),

  email VARCHAR(50)

);

INSERT INTO lis (id, name, email)

VALUES (1, 'John Doe', 'john.doe@example.com');

UPDATE customers

SET name = 'Jane Smith', email = 'jane.smith@example.com'

WHERE id = 1;

DELETE FROM list

WHERE id = 1;
```
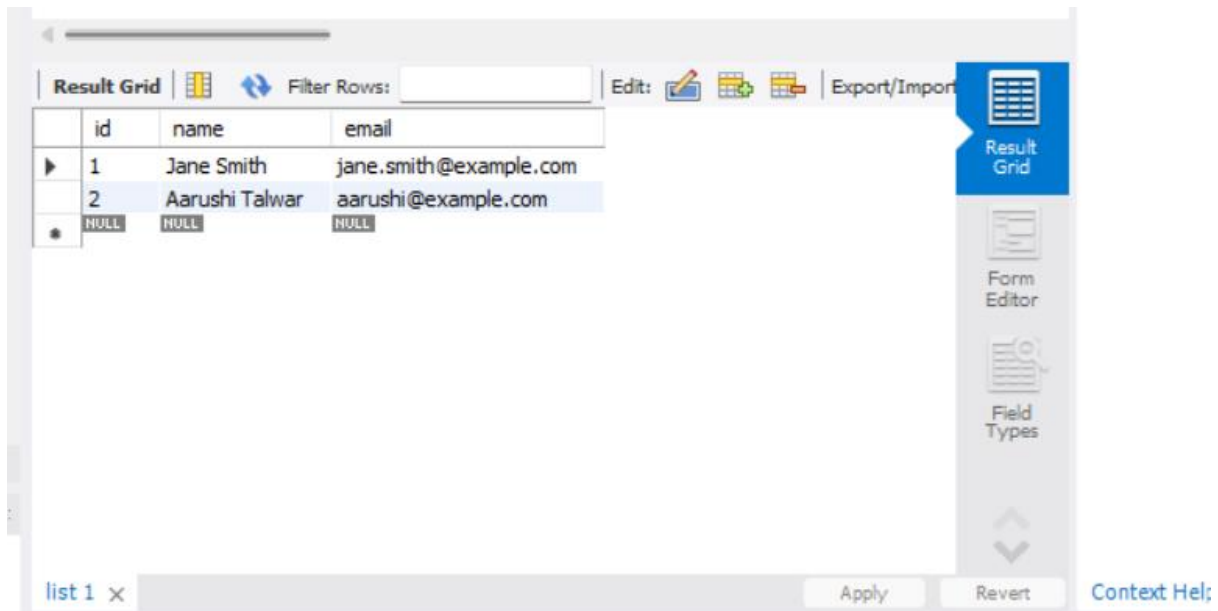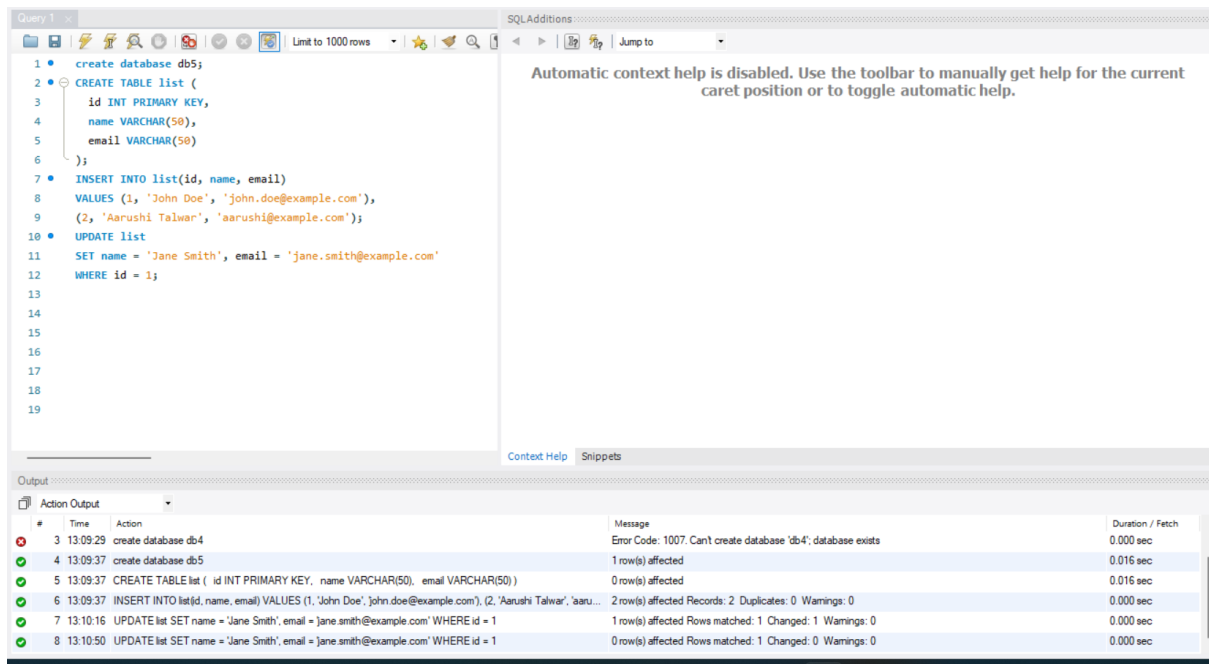
Create, update, delete commands in MongoDB

Insert

db.student.insertOne({

name:"Aarushi",

 age:21,

branch:"CSE"})

```
student> db.student.insertOne({
... name:"Aarushi",
... age:21,
... branch:"CSE"})
{
  acknowledged: true,
  insertedId: ObjectId("64a2952f4ae4dd5cb35409b3")
}
```

db.student.insertMany([

{

name:"Reha",

age:20,

branch:"Mech"},

{

name:"Surya",

age:19,

branch:"ECE"}])

```
student> db.student.insertMany([
... {
... name:"Reha",
... age:20,
... branch:"Mech"},
... {
... name:"Surya",
... age:19,
... branch:"ECE"}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64a296f64ae4dd5cb35409b6"),
    '1': ObjectId("64a296f64ae4dd5cb35409b7")
  }
}
```

Update

db.student.update({age:20},{$set:{name:"Nishi"}})

```
student> db.student.update({age:20},{$set:{name:"Nishi"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
student> db.student.find()
[
  {
    _id: ObjectId("64a2952f4ae4dd5cb35409b3"),
    name: 'Aarushi',
    age: 21,
    branch: 'CSE'
  },
  {
    _id: ObjectId("64a2962c4ae4dd5cb35409b4"),
    name: 'Nishi',
    age: 20,
    branch: 'Mech'
  },
  {
    _id: ObjectId("64a2962c4ae4dd5cb35409b5"),
    name: 'Surya',
    age: 19,
    brach: 'ECE'
  },
  {
    _id: ObjectId("64a296f64ae4dd5cb35409b6"),
    name: 'Reha',
    age: 20,
    branch: 'Mech'
```

Delete

db.student.remove({name:"Surya"})

```
student> db.student.remove({name:"Surya"})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 2 }
student> db.student.find()
[
  {
    _id: ObjectId("64a2952f4ae4dd5cb35409b3"),
    name: 'Aarushi',
    age: 21,
    branch: 'CSE'
  },
  {
    _id: ObjectId("64a2962c4ae4dd5cb35409b4"),
    name: 'Nishi',
    age: 20,
    branch: 'Mech'
  },
  {
    _id: ObjectId("64a296f64ae4dd5cb35409b6"),
    name: 'Reha',
    age: 20,
    branch: 'Mech'
  }
]
```