

SMARTBRIDGE EXTERNSHIP Modern Application Development (Java Spring Boot)

ASSIGNMENT-2

QUESTION:1

CREATE, UPDATE, DELETE COMMANDS IN MYSQL.

```
create database Details1;
```

```
use Details1;
```

```
create table Employee
```

```
(
```

```
EmployeeID int primary key,
```

```
FirstName varchar(255),
```

```
Email varchar(255),
```

```
DOB date,
```

```
Address varchar(255)
```

```
);
```

```
insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(1, 'Nikitha', 'nikitha26@gmail.com', '2003-03-23', 'Kadapa');
```

```
insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(2, 'Mahi', 'mahi13@gmail.com', '2002-03-27', 'Kurnool');
```

```
insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(3, 'Cherry', 'charitha83@gmail.com', '2002-04-13', 'Guntur');
```

```
insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(4, 'Sindhu', 'sindhu36@gmail.com', '2001-07-29', 'Karnataka');
```

```
insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(5, 'Nishi', 'nishi76@gmail.com', '2002-08-19', 'Kadapa');
```

```
UPDATE Employee SET FirstName='Jai' WHERE EmployeeID=1;
```

```
DELETE FROM Employee WHERE EmployeeID=1;
```

```

query-1* x Query-2 query-3
Limit to 1000 rows
1 • create database Details1;
2 use Details1;
3 • create table Employee
4 (
5 EmployeeID int primary key,
6 FirstName varchar(255),
7 Email varchar(255),
8 DOB date,
9 Address varchar(255)
10 );
11
12 • insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(1, 'Nikitha', 'nikitha26@gmail.com', '2003-03-23', 'Kadapa');
13 • insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(2, 'Mahi', 'mahi13@gmail.com', '2002-03-27', 'Kurnool');
14 • insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(3, 'Cherry', 'charitha83@gmail.com', '2002-04-13', 'Guntur');
15 • insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(4, 'Sindhu', 'sindhu36@gmail.com', '2001-07-29', 'Karnataka');
16 • insert into Employee(EmployeeID, FirstName, Email, DOB, Address) values(5, 'Nishi', 'nishi76@gmail.com', '2002-08-19', 'Kadapa');
17
18 • UPDATE Employee SET FirstName='Jai' WHERE EmployeeID=1;
19 • DELETE FROM Employee WHERE EmployeeID=1;

```

OUTPUT:

Result Grid

Filter Rows:

Export:

Wrap Cell Content

	EmployeeID	FirstName	Email	DOB	Address
▶	1	Nikitha	nikitha26@gmail.com	2003-03-23	Kadapa
	2	Mahi	mahi13@gmail.com	2002-03-27	Kurnool
	3	Cherry	charitha83@gmail.com	2002-04-13	Guntur
	4	Sindhu	sindhu36@gmail.com	2001-07-29	Karnataka
	5	Nishi	nishi76@gmail.com	2002-08-19	Kadapa

Result Grid

Filter Rows:

Edit:

Export/Im

	EmployeeID	FirstName	Email	DOB	Address
▶	1	Jai	nikitha26@gmail.com	2003-03-23	Kadapa
	2	Mahi	mahi13@gmail.com	2002-03-27	Kurnool
	3	Cherry	charitha83@gmail.com	2002-04-13	Guntur
	4	Sindhu	sindhu36@gmail.com	2001-07-29	Karnataka
	5	Nishi	nishi76@gmail.com	2002-08-19	Kadapa
•	NULL	NULL	NULL	NULL	NULL

Result Grid

Filter Rows:

Edit:

Export/Import:

	EmployeeID	FirstName	Email	DOB	Address
▶	2	Mahi	mahi13@gmail.com	2002-03-27	Kurnool
	3	Cherry	charitha83@gmail.com	2002-04-13	Guntur
	4	Sindhu	sindhu36@gmail.com	2001-07-29	Karnataka
	5	Nishi	nishi76@gmail.com	2002-08-19	Kadapa
✱	NULL	NULL	NULL	NULL	NULL

QUESTION:2**CREATE TABLES AND PERFORM JOINS IN MYSQL.**

```
create database Info;

create table Info.Orders
(
    OrderID int,
    CustomerID int,
    EmployeeID int,
    OrderDate date,
    ShipperID int
);

insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1878, 1, 2, '2003-03-23', 3);

insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1877, 2, 3, '2004-06-25', 4);

insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1879, 3, 4, '2005-05-29', 5);

insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1871, 4, 5, '2008-04-12', 6);

insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1872, 5, 6, '2004-01-09', 7);

select * from Info.Orders;

create table Info.Customers
(
    CustomerID int,
    CustomerName varchar(255),
    Address varchar(255),
    PostalCode int,
    Country varchar(255)
);

insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(1, 'Mahi', 'Kadapa', 15678, 'India');

insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(2, 'Mahesh', 'Kurnool', 1589, 'India');
```

```
insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(3, 'Rajesh', 'Guntur', 19876, 'India');
```

```
insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(4, 'Naveen', 'Kadapa', 16543, 'India');
```

```
insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(5, 'Sindhu', 'Karnataka', 18765, 'India');
```

```
select * from Info.Customers;
```

```
SELECT Info.Orders.OrderID, Info.Customers.CustomerName FROM Info.Orders INNER JOIN Info.Customers ON Info.Orders.CustomerID = Info.Customers.CustomerID;
```

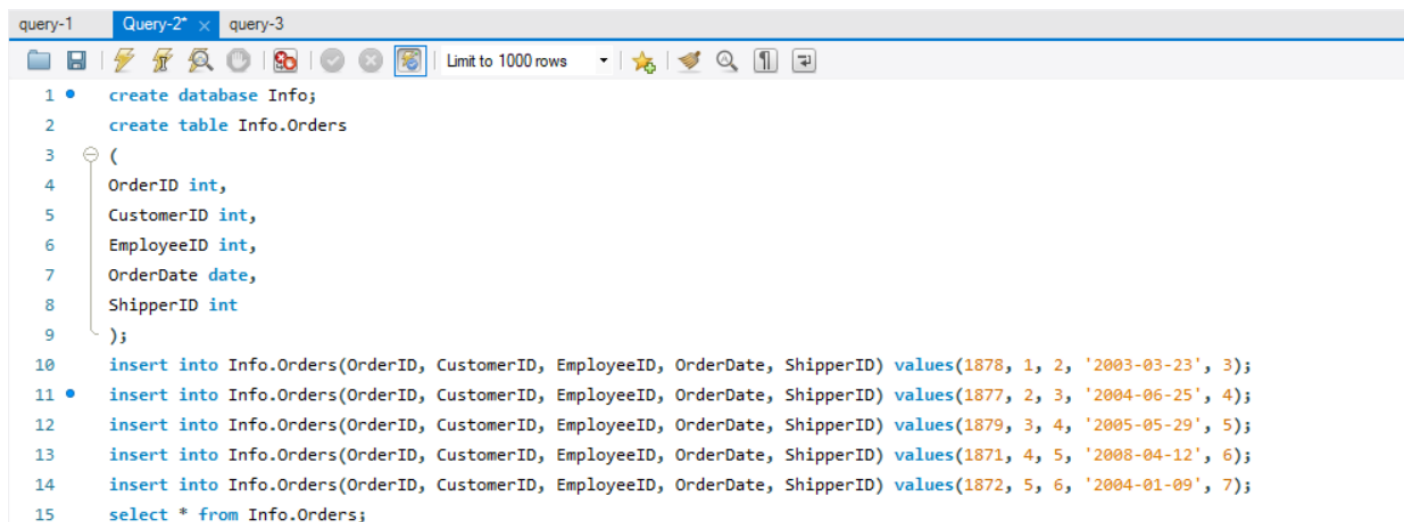
```
SELECT Info.Customers.CustomerName, Info.Orders.OrderID FROM Info.Customers LEFT JOIN Info.Orders ON Info.Customers.CustomerID = Info.Orders.CustomerID
```

```
ORDER BY Info.Customers.CustomerName;
```

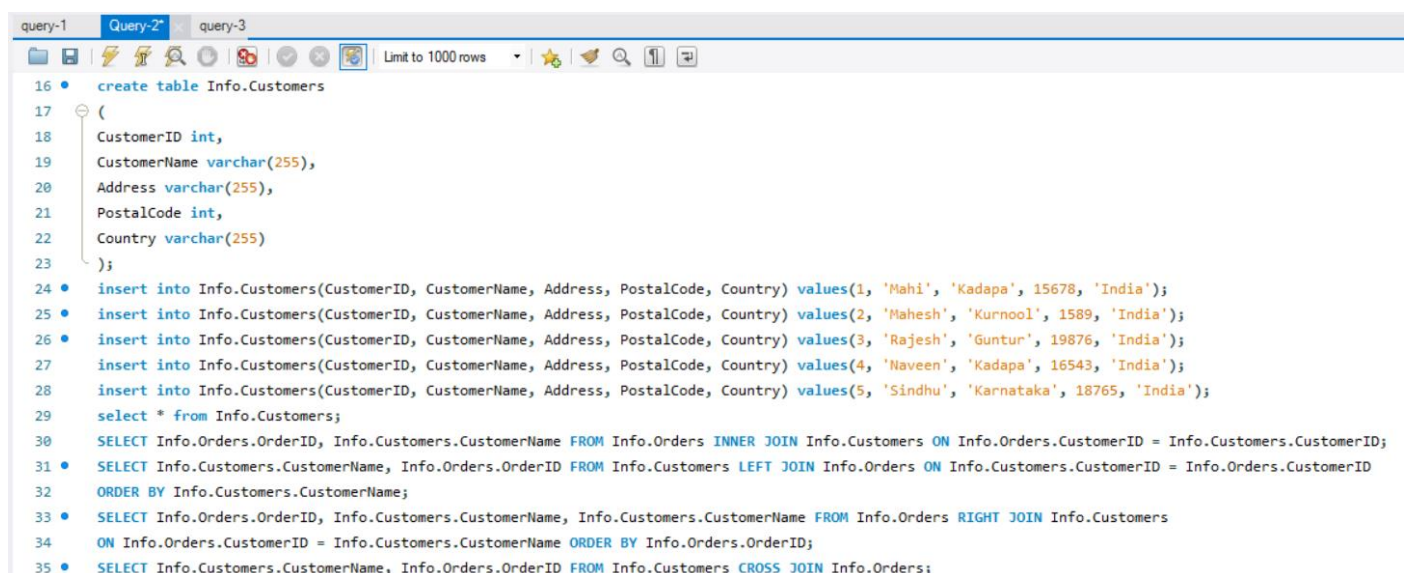
```
SELECT Info.Orders.OrderID, Info.Customers.CustomerName, Info.Customers.CustomerName FROM Info.Orders RIGHT JOIN Info.Customers
```

```
ON Info.Orders.CustomerID = Info.Customers.CustomerName ORDER BY Info.Orders.OrderID;
```

```
SELECT Info.Customers.CustomerName, Info.Orders.OrderID FROM Info.Customers CROSS JOIN Info.Orders;
```




```
query-1 Query-2* query-3
Limit to 1000 rows
1 • create database Info;
2 • create table Info.Orders
3 • (
4 •   OrderID int,
5 •   CustomerID int,
6 •   EmployeeID int,
7 •   OrderDate date,
8 •   ShipperID int
9 • );
10 • insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1878, 1, 2, '2003-03-23', 3);
11 • insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1877, 2, 3, '2004-06-25', 4);
12 • insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1879, 3, 4, '2005-05-29', 5);
13 • insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1871, 4, 5, '2008-04-12', 6);
14 • insert into Info.Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShipperID) values(1872, 5, 6, '2004-01-09', 7);
15 • select * from Info.Orders;
```




```
query-1 Query-2* query-3
Limit to 1000 rows
16 • create table Info.Customers
17 • (
18 •   CustomerID int,
19 •   CustomerName varchar(255),
20 •   Address varchar(255),
21 •   PostalCode int,
22 •   Country varchar(255)
23 • );
24 • insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(1, 'Mahi', 'Kadapa', 15678, 'India');
25 • insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(2, 'Mahesh', 'Kurnool', 1589, 'India');
26 • insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(3, 'Rajesh', 'Guntur', 19876, 'India');
27 • insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(4, 'Naveen', 'Kadapa', 16543, 'India');
28 • insert into Info.Customers(CustomerID, CustomerName, Address, PostalCode, Country) values(5, 'Sindhu', 'Karnataka', 18765, 'India');
29 • select * from Info.Customers;
30 • SELECT Info.Orders.OrderID, Info.Customers.CustomerName FROM Info.Orders INNER JOIN Info.Customers ON Info.Orders.CustomerID = Info.Customers.CustomerID;
31 • SELECT Info.Customers.CustomerName, Info.Orders.OrderID FROM Info.Customers LEFT JOIN Info.Orders ON Info.Customers.CustomerID = Info.Orders.CustomerID
32 • ORDER BY Info.Customers.CustomerName;
33 • SELECT Info.Orders.OrderID, Info.Customers.CustomerName, Info.Customers.CustomerName FROM Info.Orders RIGHT JOIN Info.Customers
34 • ON Info.Orders.CustomerID = Info.Customers.CustomerName ORDER BY Info.Orders.OrderID;
35 • SELECT Info.Customers.CustomerName, Info.Orders.OrderID FROM Info.Customers CROSS JOIN Info.Orders;
```


OUTPUT:

Result Grid




Filter Rows:

Export: 

Wrap Cell Content: 

	OrderID	CustomerID	EmployeeID	OrderDate	ShipperID
▶	1878	1	2	2003-03-23	3
	1877	2	3	2004-06-25	4
	1879	3	4	2005-05-29	5
	1871	4	5	2008-04-12	6
	1872	5	6	2004-01-09	7

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	CustomerID	CustomerName	Address	PostalCode	Country
▶	1	Mahi	Kadapa	15678	India
	2	Mahesh	Kurnool	1589	India
	3	Rajesh	Guntur	19876	India
	4	Naveen	Kadapa	16543	India
	5	Sindhu	Karnataka	18765	India

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	OrderID	CustomerName
▶	1878	Mahi
	1877	Mahesh
	1879	Rajesh
	1871	Naveen
	1872	Sindhu

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	CustomerName	OrderID
▶	Mahesh	1877
	Mahi	1878
	Naveen	1871
	Rajesh	1879
	Sindhu	1872

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	OrderID	CustomerName	CustomerName
▶	NULL	Mahi	Mahi
	NULL	Mahesh	Mahesh
	NULL	Rajesh	Rajesh
	NULL	Naveen	Naveen
	NULL	Sindhu	Sindhu

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
CustomerName	OrderID		
Sindhu	1878		
Naveen	1878		
Rajesh	1878		
Mahesh	1878		
Mahi	1878		
Sindhu	1877		
Naveen	1877		
Rajesh	1877		
Mahesh	1877		
Mahi	1877		
Sindhu	1879		
Naveen	1879		
Rajesh	1879		
Mahesh	1879		
Mahi	1879		
Sindhu	1871		
Naveen	1871		
Rajesh	1871		
Mahesh	1871		
Mahi	1871		
Sindhu	1872		
Naveen	1872		
Rajesh	1872		
Mahesh	1872		
Mahi	1872		

QUESTION:3

CREATE, UPDATE, DELETE COMMANDS IN MONGODB.

MongoDB Compass - localhost:27017/test.employee

Connect Edit View Collection Help

localhost:27017 Documents test.employee

My Queries Databases

Search

PractiseDB admin config local test employee

test.employee

3 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("6473179da9a23f3925cf61a0"), "name": "Sandeep", "email": "sandeep@example.com", "age": 25, "salary": 60000 }
```

```
{ "_id": ObjectId("6473179da9a23f3925cf61a1"), "name": "Manish", "email": "manish@example.com", "age": 25, "salary": 50000 }
```

```
{ "_id": ObjectId("6473179da9a23f3925cf61a2"), "name": "Santosh", "email": "santosh@example.com", "age": 28, "salary": 70000 }
```

Create command:

```
>_MONGOSH
> db.createCollection('employee')
< { ok: 1 }
> db.employee.insert([ {name:"Sandeep", email:"sandeep@example.com", age:25, salary:60000}, {name:"Manish", email:"manish@example.com", age:28, salary:50000}, {name:"Santosh", email:"santosh@example.com", age:28, salary:70000}, {name:"Chauhan", email:"dhirendra@example.com", age:24, salary:40000} ])
< DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6473179da9a23f3925cf61a0"),
    '1': ObjectId("6473179da9a23f3925cf61a1"),
    '2': ObjectId("6473179da9a23f3925cf61a2"),
    '3': ObjectId("6473179da9a23f3925cf61a3")
  }
}
```

```
>_MONGOSH
> db.employee.find()
< {
  _id: ObjectId("6473179da9a23f3925cf61a0"),
  name: 'Sandeep',
  email: 'sandeep@example.com',
  age: 25,
  salary: 60000
}
{
  _id: ObjectId("6473179da9a23f3925cf61a1"),
  name: 'Manish',
  email: 'manish@example.com',
  age: 28,
  salary: 50000
}
```

```
>_MONGOSH
{
  _id: ObjectId("6473179da9a23f3925cf61a2"),
  name: 'Santosh',
  email: 'santosh@example.com',
  age: 28,
  salary: 70000
}
{
  _id: ObjectId("6473179da9a23f3925cf61a3"),
  name: 'Chauhan',
  email: 'dhirendra@example.com',
  age: 24,
  salary: 40000
}
```

Update command:

```
>_MONGOSH
> db.employee.update({email:"manish@example.com"}, {$set:{age:25}})
< DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.employee.find()
< {
  _id: ObjectId("6473179da9a23f3925cf61a0"),
  name: 'Sandeep',
  email: 'sandeep@example.com',
  age: 25,
  salary: 60000
}
{
  _id: ObjectId("6473179da9a23f3925cf61a1"),
  name: 'Manish',
  email: 'manish@example.com',
  age: 25,
  salary: 50000
}
```

NAME: DASARI VIJAYA SREE

REG NO: 20MIS0280

```
{
  _id: ObjectId("6473179da9a23f3925cf61a2"),
  name: 'Santosh',
  email: 'santosh@example.com',
  age: 28,
  salary: 70000
}
{
  _id: ObjectId("6473179da9a23f3925cf61a3"),
  name: 'Chauhan',
  email: 'dhirendra@example.com',
  age: 24,
  salary: 40000
}
```

Delete command:

```
>_MONGOOSH
> db.employee.remove({name:"Chauhan"})
< DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
< {
  acknowledged: true,
  deletedCount: 1
}
> db.employee.find()
< {
  _id: ObjectId("6473179da9a23f3925cf61a0"),
  name: 'Sandeep',
  email: 'sandeep@example.com',
  age: 25,
  salary: 60000
}
{
  _id: ObjectId("6473179da9a23f3925cf61a1"),
  name: 'Manish',
  email: 'manish@example.com',
  age: 25,
  salary: 50000
}
```

```
{
  _id: ObjectId("6473179da9a23f3925cf61a2"),
  name: 'Santosh',
  email: 'santosh@example.com',
  age: 28,
  salary: 70000
}
```

Count of documents:

```
> db.employee.countDocuments()
< 3
```