

Name: Alen Sebastian
Reg_No: 20BCR7018

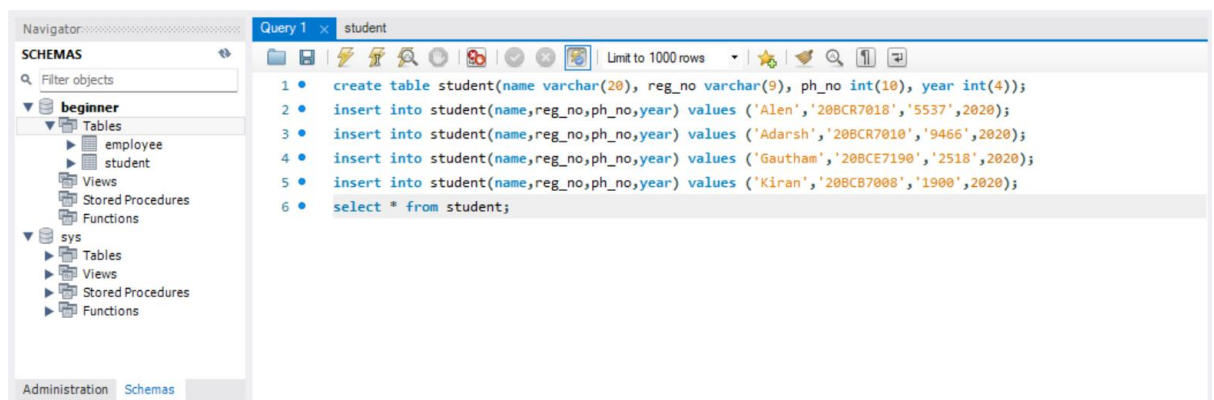
SMARTBRIDGE EXTERNSHIP

Modern App Development Using Spring Boot

Week 2 Assignment

- *Create, update, delete commands in MySQL*

1) Create Command in SQL



	name	reg_no	ph_no	year
▶	Alen	20BCR7018	5537	2020
	Adarsh	20BCR7010	9466	2020
	Gautham	20BCE7190	2518	2020
	Kiran	20BCB7008	1900	2020

2) Update Command in SQL

```
update student set reg_no = '20BCB7007' where name = 'Kiran';
```

Before:

	name	reg_no	ph_no	year
▶	Alen	20BCR7018	5537	2020
	Adarsh	20BCR7010	9466	2020
	Gautham	20BCE7190	2518	2020
	Kiran	20BCB7008	1900	2020

After:

Result Grid	Filter Rows:	Export:	Wrap Cell Content
name	reg_no	ph_no	year
Alen	20BCR7018	5537	2020
Adarsh	20BCR7010	9466	2020
Gautham	20BCE7190	2518	2020
Kiran	20BCB7007	1900	2020

3) Delete command in SQL

```
delete from student where reg_no = '20BCB7007';
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
name	reg_no	ph_no	year
Alen	20BCR7018	5537	2020
Adarsh	20BCR7010	9466	2020
Gautham	20BCE7190	2518	2020

- *Create tables and perform joins in sql*

Employee Table:

```
1 CREATE TABLE employee(emp_id int, emp_name varchar(255), address varchar(255), city varchar(255), postal_code varchar(255), country varchar(255), PRIMARY KEY (emp_id));
2 insert into employee(emp_id,emp_name,address,city,postal_code,country) values (001,'Ramasundar','Karnataka,India', 'Banglore','765904','India');
3 insert into employee(emp_id,emp_name,address,city,postal_code,country) values (002,'Alex','London,England', 'London','333491','England');
4 insert into employee(emp_id,emp_name,address,city,postal_code,country) values (003,'Alford','New York,USA', 'HempStead','743104','USA');
5 insert into employee(emp_id,emp_name,address,city,postal_code,country) values (005,'Ravi Kumar','Tamil Nadu,India', 'Chennai','567994','India');
6
7
```

Result Grid

Edit:

Export/Import:

	emp_id	emp_name	address	city	postal_code	country
▶	1	Ramasundar	Karnataka,India	Banglore	765904	India
	2	Alex	London,England	London	333491	England
	3	Alford	New York,USA	HempStead	743104	USA
	5	Ravi Kumar	Tamil Nadu,India	Chennai	567994	India
●	NULL	NULL	NULL	NULL	NULL	NULL

Salary Table:

```

• CREATE TABLE salary (
    emp_id INT,
    salary_amount DECIMAL(10, 2),
    currency VARCHAR(50),
    PRIMARY KEY (emp_id),
    FOREIGN KEY (emp_id) REFERENCES employee(emp_id)
);

```

Result Grid			
Filter Rows:			
	emp_id	salary_amount	currency
▶	1	5000.00	USD
	2	6500.00	GBP
	3	7000.00	USD
	5	4500.00	EUR
	NULL	NULL	NULL

Inner Join:

```

1 • SELECT employee.emp_id, employee.emp_name, salary.salary_amount, salary.currency
2 FROM employee
3 INNER JOIN salary ON employee.emp_id = salary.emp_id;
4

```

Result Grid				
Filter Rows:				
Export: Wrap				
	emp_id	emp_name	salary_amount	currency
▶	1	Ramasundar	5000.00	USD
	2	Alex	6500.00	GBP
	3	Alford	7000.00	USD
	5	Ravi Kumar	4500.00	EUR

Right Join:

```

6 -- Right Join
7 • SELECT employee.emp_id, employee.emp_name, salary.salary_amount, salary.currency
8 FROM employee
9 RIGHT JOIN salary ON employee.emp_id = salary.emp_id;

```

Result Grid				
Filter Rows:				
Export: Wrap Cell Content:				
	emp_id	emp_name	salary_amount	currency
▶	1	Ramasundar	5000.00	USD
	2	Alex	6500.00	GBP
	3	Alford	7000.00	USD
	5	Ravi Kumar	4500.00	EUR

Left Join:

```

11  -- Left Join
12  • SELECT employee.emp_id, employee.emp_name, salary.salary_amount, salary.currency
13  FROM employee
14  LEFT JOIN salary ON employee.emp_id = salary.emp_id;

```

Result Grid				
Filter Rows: <input type="text"/>				
Export: Wrap Cell Content:				
	emp_id	emp_name	salary_amount	currency
▶	1	Ramasundar	5000.00	USD
	2	Alex	6500.00	GBP
	3	Alford	7000.00	USD
	5	Ravi Kumar	4500.00	EUR

Cross Join:

```

-- Cross Join
SELECT employee.emp_id, employee.emp_name, salary.salary_amount, salary.currency
FROM employee
CROSS JOIN salary;

```

Result Grid				
Filter Rows: <input type="text"/>				
Export: Wrap Cell Content:				
	emp_id	emp_name	salary_amount	currency
▶	5	Ravi Kumar	5000.00	USD
	3	Alford	5000.00	USD
	2	Alex	5000.00	USD
	1	Ramasundar	5000.00	USD
	5	Ravi Kumar	6500.00	GBP
	3	Alford	6500.00	GBP
	2	Alex	6500.00	GBP
	1	Ramasundar	6500.00	GBP
	5	Ravi Kumar	7000.00	USD
	3	Alford	7000.00	USD
	2	Alex	7000.00	USD
	1	Ramasundar	7000.00	USD
	5	Ravi Kumar	4500.00	EUR
	3	Alford	4500.00	EUR
	2	Alex	4500.00	EUR
	1	Ramasundar	4500.00	EUR

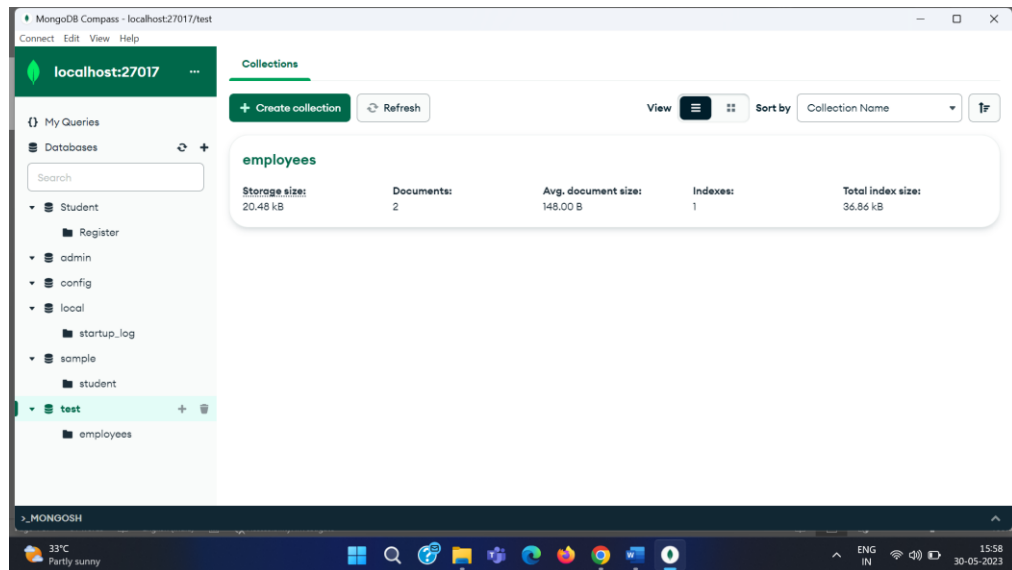
- ***Create, update, delete commands in MongoDB***

1) Create

```

> db.createCollection("employees")
< { ok: 1 }

```



```
> db.employees.insertOne({
  emp_id: 1,
  emp_name: "Alen Sebastian",
  address: "Kerala, India",
  city: "India",
  postal_code: "680309",
  country: "IN"
})
< {
  acknowledged: true,
  insertedId: ObjectId("6475cebbca5e514b7109a16b")
}
> db.employees.insertOne({
  emp_id: 2,
  emp_name: "Alex Thomas",
  address: "New York, US",
  city: "New Hampshire",
  postal_code: "345672",
  country: "USA"
})
< {
  acknowledged: true,
  insertedId: ObjectId("6475cf1dca5e514b7109a16c")
}
{
  "_id": {
    "$oid": "6475d13eca5e514b7109a16d"
  },
  "emp_id": 1,
  "emp_name": "Alen Sebastian",
  "address": "Kerala, India",
  "city": "India",
  "postal_code": "680309",
  "country": "IN"
}
{
  "_id": {
    "$oid": "6475cf1dca5e514b7109a16c"
  },
  "emp_id": 2,
  "emp_name": "Jane Smith",
  "address": "New York, US",
  "city": "San Francisco",
  "postal_code": "345672",
  "country": "USA"
}
```

2) Delete

```
> db.employees.deleteOne({ emp_id: 1 })
< {
  acknowledged: true,
  deletedCount: 1
}
```

Documents Aggregations Schema Explain Plan Indexes Validation

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

➕ ADD DATA ▾ 📄 EXPORT DATA ▾ 1 - 1 of 1 ↺ < > ☰ {} 📄

```
{
  "_id": ObjectId("6475cf1dca5e514b7109a16c"),
  "emp_id": 2,
  "emp_name": "Alex Thomas",
  "address": "New York, US",
  "city": "New Hampshire",
  "postal_code": "345672",
  "country": "USA"
}
```

3) Update

```
> db.employees.updateOne(
  { emp_id: 2 },
  {
    $set: {
      emp_name: "Jane Smith",
      city: "San Francisco"
    }
  }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

test.employees

Documents Aggregations Schema Explain Plan Indexes Validation

Filter ⓘ ⓘ Type a query: { field: 'value' } Reset Find ↵

➕ ADD DATA ▾ 📄 EXPORT DATA ▾

1 - 1 of 1 ↻ <

```
_id: ObjectId('6475cf1dca5e514b7109a16c')
emp_id: 2
emp_name: "Jane Smith"
address: "New York, US"
city: "San Francisco"
postal_code: "345672"
country: "USA"
```