Smart Bridge – Modern Application Development (Java Spring Boot)

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Assignment-2

Create, update, delete comments in my SQL.

Create tables and perform joins operations.

Create, update, delete comments in mongo DB.

My SQL Queries for create, update, delete and joins operations.

```
show databases;
create database Amazon;
use Amazon; -- now onwards Amazon database will be affected by the queries
create table products(sno tinyint primary key,productname varchar(30),price int);
describe products;
drop  database Amazon;

alter table products add discount varchar(10);

insert into products values(1,"Refirdgerator",40000,"10%"),
(2,"Air Conditioner",30000,"5%"),(3,"Washing Machine",40000,"12%");

insert into products(sno,productname,price) values (4,"bed spread",5000);

select*from products;

create table festival_days(sno tinyint primary key,products varchar(100),festival_discount
varchar(5));
drop table festival_days;
insert into festival_days values(1,"Refirdgerator","10%"),(2,"Air Conditioner","10%"),(3,"bed
spread","4%");
```

select * from festival_days;

-- inner join

select * from products inner join festival_days on
products.discount=festival_days.festival_discount;

-- left join

select * from products left join festival_days on
products.discount=festival_days.festival_discount;

-- right join

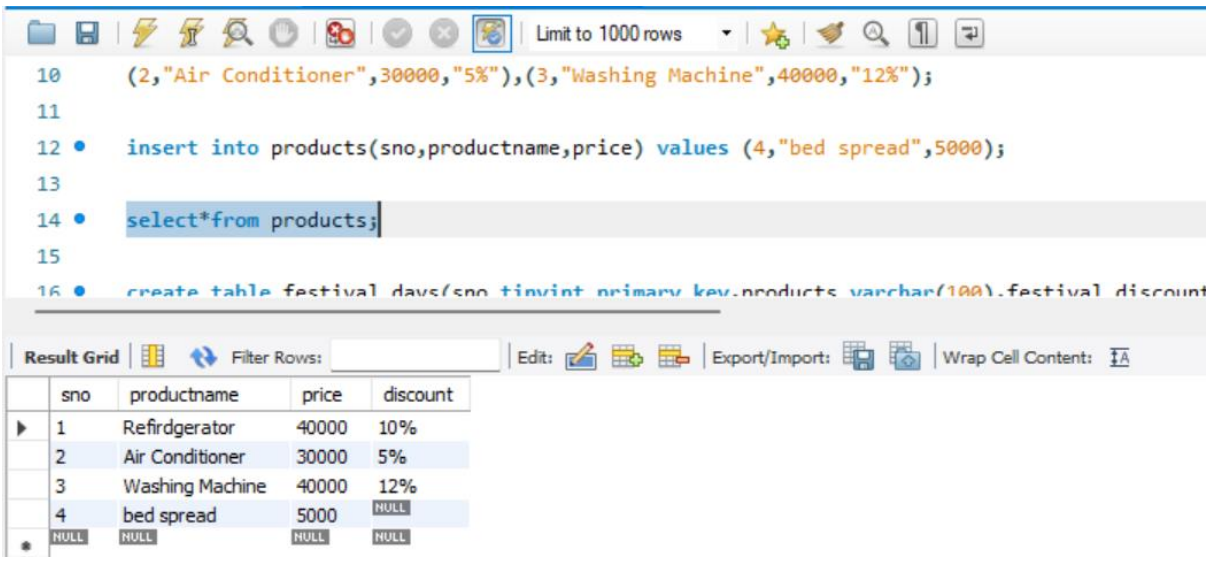
select * from products right join festival_days on
products.discount=festival_days.festival_discount;

-- full join

select * from products full join festival_days;

Results:

Created two table names as products, festival_days;



```
19
20
21 •  select * from festival_days;
22
23     -- inner join
24 •  select * from products inner join festival_days on products.discount=festival_days.festival_discount;
25
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

sno	products	festival_discount
1	Refirdgerator	10%
2	Air Conditioner	10%
3	bed spread	4%
NULL	NULL	NULL

Inner join:

```
19
20
21 •  select * from festival_days;
22
23     -- inner join
24 •  select * from products inner join festival_days on products.discount=festival_days.festival_discount;
25
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sno	productname	price	discount	sno	products	festival_discount
1	Refirdgerator	40000	10%	2	Air Conditioner	10%
1	Refirdgerator	40000	10%	1	Refirdgerator	10%

Left join:

```
22
23     -- inner join
24 •  select * from products inner join festival_days on products.discount=festival_days.festival_discount;
25
26     -- left join
27 •  select * from products left join festival_days on products.discount=festival_days.festival_discount;
28
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sno	productname	price	discount	sno	products	festival_discount
1	Refirdgerator	40000	10%	2	Air Conditioner	10%
1	Refirdgerator	40000	10%	1	Refirdgerator	10%
2	Air Conditioner	30000	5%	NULL	NULL	NULL
3	Washing Machine	40000	12%	NULL	NULL	NULL
4	bed spread	5000	NULL	NULL	NULL	NULL

right join:

```
25
26      -- left join
27 •    select * from products left join festival_days on products.discount=festival_days.festival_discount;
28
29      -- right join
30 •    select * from products right join festival_days on products.discount=festival_days.festival_discount;
31
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sno	productname	price	discount	sno	products	festival_discount
1	Refirdgerator	40000	10%	1	Refirdgerator	10%
1	Refirdgerator	40000	10%	2	Air Conditioner	10%
NULL	NULL	NULL	NULL	3	bed spread	4%

Full join:

```
29      -- right join
30 •    select * from products right join festival_days on products.discount=festival_days.festival_discount;
31
32      -- full join
33 •    select * from products full join festival_days;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

sno	productname	price	discount	sno	products	festival_discount
1	Refirdgerator	40000	10%	3	bed spread	4%
1	Refirdgerator	40000	10%	2	Air Conditioner	10%
1	Refirdgerator	40000	10%	1	Refirdgerator	10%
2	Air Conditioner	30000	5%	3	bed spread	4%
2	Air Conditioner	30000	5%	2	Air Conditioner	10%
2	Air Conditioner	30000	5%	1	Refirdgerator	10%
3	Washing Machine	40000	12%	3	bed spread	4%
3	Washing Machine	40000	12%	2	Air Conditioner	10%
3	Washing Machine	40000	12%	1	Refirdgerator	10%
4	bed spread	5000	NULL	3	bed spread	4%
4	bed spread	5000	NULL	2	Air Conditioner	10%
4	bed spread	5000	NULL	1	Refirdgerator	10%

Conclusion:

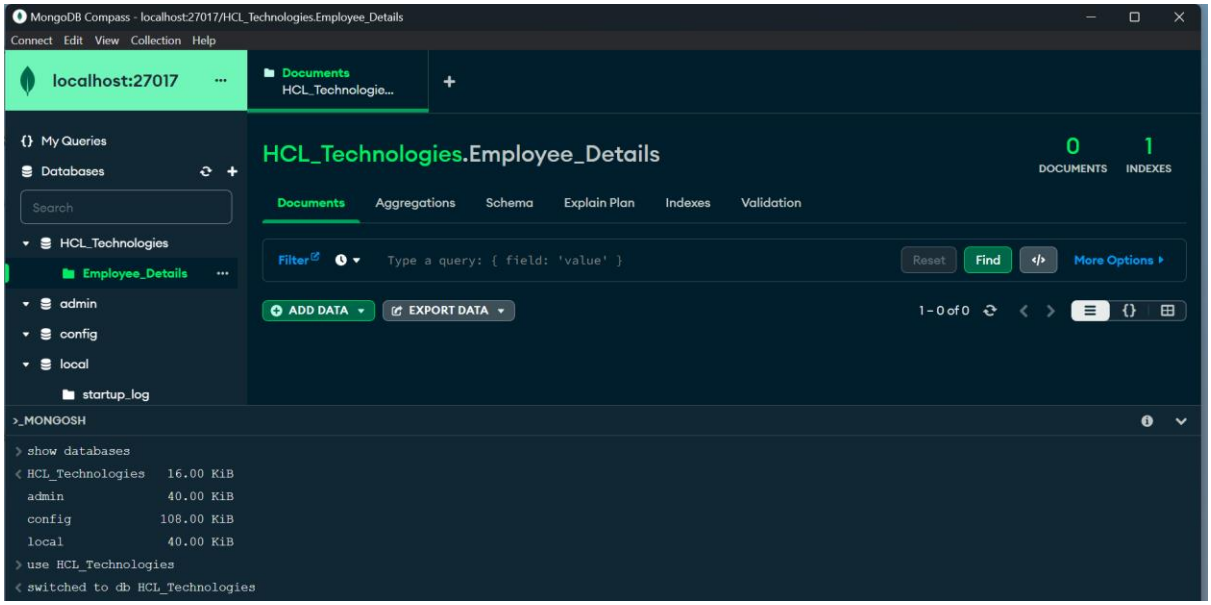
In my SQL workbench I have created two tables (products, festival_days) and also performed the delete and joins operations.

Mongo DB queries for create, update, delete operations:

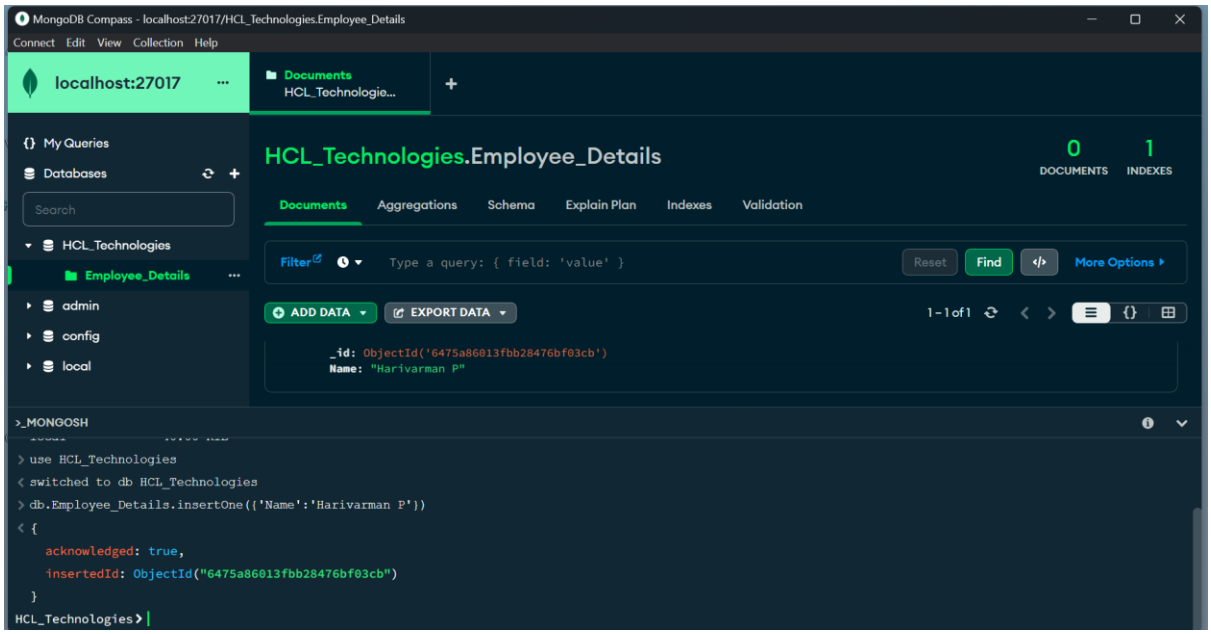
Mongosh code:

```
show databases
HCL_Technologies   60.00 KiB
admin              40.00 KiB
config            108.00 KiB
local              40.00 KiB
use HCL_Technologies
switched to db HCL_Technologies
db.Employee_Details.insertOne({'Name':'Harivarman P'});
{
  acknowledged: true,
  insertedId: ObjectId("6475afad579e4c3a45eb2167")
}
db.Employee_Details.updateOne({Name:"Harivarman
P"},{$set:{Name:"Jaivarman P"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
db.Employee_Details.deleteOne({Name:"Jaivarman P"});
{
  acknowledged: true,
  deletedCount: 1
}
```

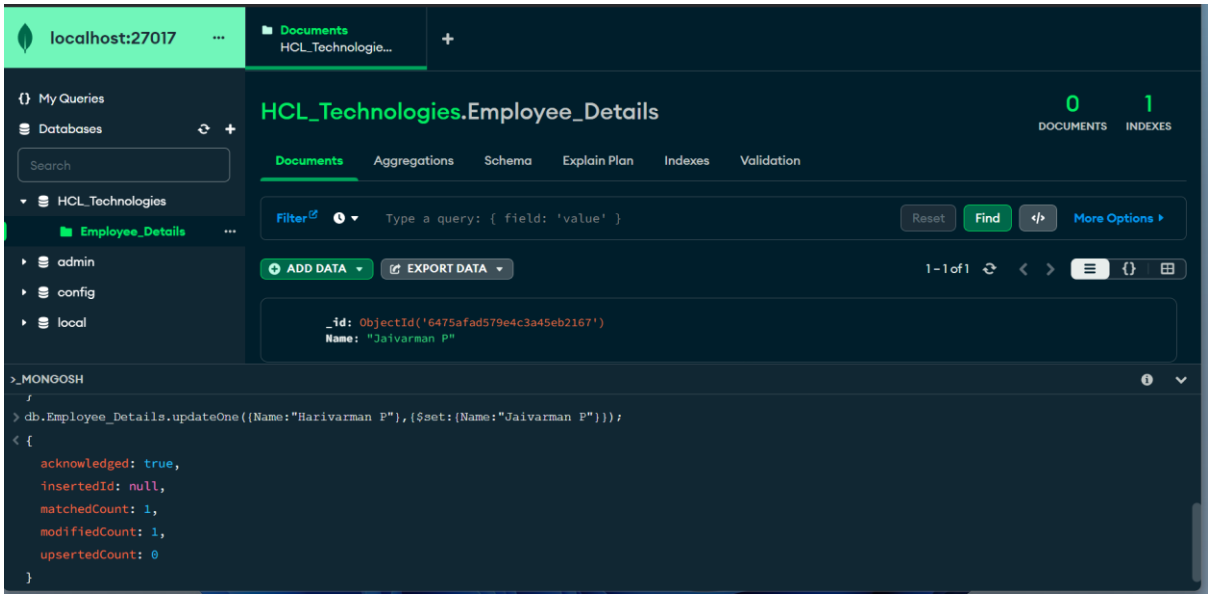
Create database and collections:



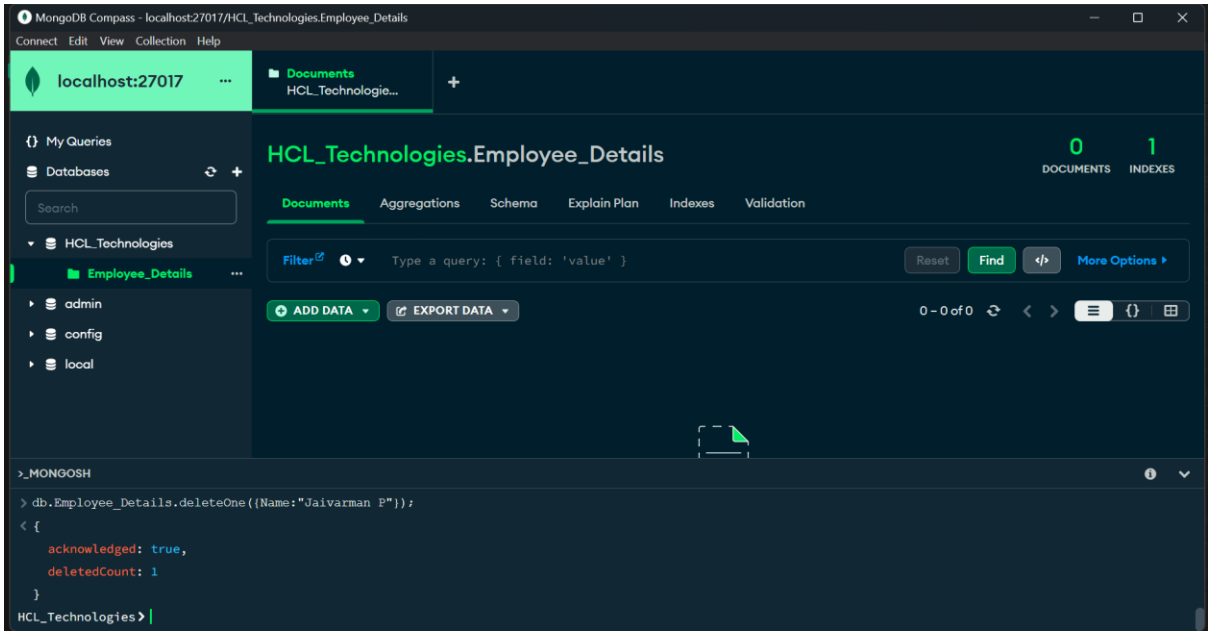
Insert data into collections:



Update the values of collection data:



Delete the collection data:



Conclusion:

I have created a database named as HCL_Technologies along with the collection Employee_Details. I have been insert the value and then update that value and also delete that value.