

## ASSIGNMENT 2

### SMARTBRIDGE EXTERNSHIP

Modern Application Development (Java Spring Boot)



# VIT<sup>®</sup>

**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

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2. Create table, update, delete, commands,

Perform Joins in MySQL.

Create update delete command in mongo.

SQL> create table department

2 (department\_name varchar2(20) not null,  
3 department\_number number(3) not null,  
4 department\_id char(6) not null,  
5 department\_strength number(4) not null,  
6 department\_info varchar(30) null,  
7 department\_files number(5) null);

```
SQL> create table department
  2 (department_name varchar2(20) not null,
  3 department_number number(3) not null,
  4 department_id char(6) not null,
  5 department_strength number(4) not null,
  6 department_info varchar(30) null,
  7 department_files number(5) null);
```

Table created.

```
SQL> desc department
```

Name	Null?	Type
DEPARTMENT_NAME	NOT NULL	VARCHAR2(20)
DEPARTMENT_NUMBER	NOT NULL	NUMBER(3)
DEPARTMENT_ID	NOT NULL	CHAR(6)
DEPARTMENT_STRENGTH	NOT NULL	NUMBER(4)
DEPARTMENT_INFO		VARCHAR2(30)
DEPARTMENT_FILES		NUMBER(5)

```
SQL>
```

```
SQL> create table school_info
  2 (school_name varchar2(40) not null,
  3 school_address varchar2(50) not null,
  4 school_code number(6) not null,
  5 school_strength number(6) not null,
  6 school_fee number(6) null,
  7 establishing_year number(4) not null);
```

Table created.

```
SQL> desc school_info
```

Name	Null?	Type
SCHOOL_NAME	NOT NULL	VARCHAR2(40)
SCHOOL_ADDRESS	NOT NULL	VARCHAR2(50)
SCHOOL_CODE	NOT NULL	NUMBER(6)
SCHOOL_STRENGTH	NOT NULL	NUMBER(6)
SCHOOL_FEE		NUMBER(6)
ESTABLISHING_YEAR	NOT NULL	NUMBER(4)

```

SQL> desc schools;
Name                                         Null?    Type
-----
SCHOOL_NAME                                NOT NULL VARCHAR2(12)
SCHOOL_CODE                                NOT NULL NUMBER(6)
SCHOOL_STRENGTH                            NOT NULL NUMBER(6)
YEAR_ESTABLISHED                           NOT NULL NUMBER(4)
SCHOOL_RANK                                NOT NULL NUMBER(5)

SQL> insert into schools (school_name, school_code, school_strength, year_established, school_rank)
  2  values('shishukunj',452001,7000,2004,5);

1 row created.

SQL> insert into schools (school_name, school_code, school_strength, year_established, school_rank)
  2  values('DPS',452020,6000,2007,9);

1 row created.

SQL> insert into schools (school_name, school_code, school_strength, year_established, school_rank)
  2  values('emralds',452031,4000,2011,14);

1 row created.

SQL> select * from schools;

SCHOOL_NAME  SCHOOL_CODE  SCHOOL_STRENGTH  YEAR_ESTABLISHED  SCHOOL_RANK
-----
shishukunj   452001       7000            2004              5
DPS          452020       6000            2007              9
emralds      452031       4000            2011             14

```

## DELETE

```

1) SQL> select b.book_id, b.title,b.publisher_name,a.author_name,
2 c.no_of_copies,l.branch_id
3 from book b,book_authors a,book_copies c,library_branch l
4 where b.book_id=a.book_id
5 AND b.book_id=c.book_id
6 AND l.branch_id=c.branch_id;

```

```
SQL> select b.book_id, b.title,b.publisher_name,a.author_name,
2 c.no_of_copies,l.branch_id
3 from book b,book_authors a,book_copies c,library_branch l
4 where b.book_id=a.book_id
5 AND b.book_id=c.book_id
6 AND l.branch_id=c.branch_id;
```

BOOK_ID	TITLE	PUBLISHER_NAME	AUTHOR_NAME
NO_OF_COPIES	BRANCH_ID		
1	dbms	mcgraw-hill	navathe
7	10		
1	dbms	mcgraw-hill	navathe
4	11		
2	dbms	mcgraw-hill	navathe
14	12		
BOOK_ID	TITLE	PUBLISHER_NAME	AUTHOR_NAME
NO_OF_COPIES	BRANCH_ID		
2	dbms	mcgraw-hill	navathe
9	13		
3	aod	balaji	martin
8	14		
4	cg	grupo planeta	edward
1	11		
BOOK_ID	TITLE	PUBLISHER_NAME	AUTHOR_NAME
NO_OF_COPIES	BRANCH_ID		
5	os	pearson	agatha

select \* from book;

SQL> delete from book

2 where book\_id = 3;

```
SQL> select * from book;
```

BOOK_ID	TITLE	PUB_YEAR	PUBLISHER_NAME
1	dbms	jan-2017	mcgraw-hill
2	dbms	jun-2016	mcgraw-hill
3	aod	oct-2015	balaji
4	cg	sep-2015	grupo planeta
5	os	may-2016	pearson

```
SQL> delete from book  
2 where book_id = 3;
```

```
1 row deleted.
```

```
SQL> select * from book;
```

BOOK_ID	TITLE	PUB_YEAR	PUBLISHER_NAME
1	dbms	jan-2017	mcgraw-hill
2	dbms	jun-2016	mcgraw-hill
4	cg	sep-2015	grupo planeta
5	os	may-2016	pearson

## UPDATE

```
UPDATE book
```

```
SET book_id=4;
```

```
WHERE book_id=3;
```

```
Select * from book;
```

## MONGO DB:

```
> use beginnersbookdb
switched to db beginnersbookdb
> db.students.find().pretty()
{
  "_id" : ObjectId("59bcecc7668dcce02aaa6fed"),
  "StudentId" : 1001,
  "StudentName" : "Steve",
  "age" : 30
}
{
  "_id" : ObjectId("59bcecc7668dcce02aaa6fef"),
  "StudentId" : 3333,
  "StudentName" : "Rick",
  "age" : 35
}
> db.students.remove({"StudentId": 3333})
WriteResult({ "nRemoved" : 1 })
> db.students.find().pretty()
{
  "_id" : ObjectId("59bcecc7668dcce02aaa6fed"),
  "StudentId" : 1001,
  "StudentName" : "Steve",
  "age" : 30
}
>
```