Assinment - 2

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VIT VELLORE

Google drive folder link-

https://drive.google.com/drive/folders/16euOe-9R2a4Fjb885r5wgLe7u3H-X9gJ?usp=sharing

MySQL/MongoDB

```
MySQL-
//create -
mysgl> create table faculty(id int NOT NULL AUTO INCREMENT, Name
varchar(60) NOT NULL, Age int, Subject varchar(25), Dept varchar(25),
Active TINYINT, PRIMARY KEY(id));
Query OK, 0 rows affected (0.03 sec)
mysql> show tables;
mysql> insert into faculty values(1,"Sanjay
Gupta",43,"maths","Science",1);
Query OK, 1 row affected (0.01 sec)
mysql> insert into faculty values(2,"Naman
Sharma",28,"Accounts","Commerce",1);
Query OK, 1 row affected (0.01 sec)
mysql> insert into faculty values(3,"Arjun
Dubey",34,"Physics","Science",0);
```

Query OK, 1 row affected (0.01 sec)

```
mysgl> insert into faculty values(4,"Roshni
Singh",51,"Geography","Humanities",0);
Query OK, 1 row affected (0.00 sec)
mysql> insert into faculty(name,age,active) values("Ram prabhakar
Singh",35,1);
Query OK, 1 row affected (0.01 sec)
//Read -
mysql> Select * from faculty;
| 1 | Sanjay Gupta | 43 | maths | Science | 1 |
| 2 | Naman Sharma | 28 | Accounts | Commerce | 1 |
3 | Arjun Dubey | 34 | Physics | Science |
                                          0 |
4 | Roshni Singh | 51 | Geography | Humanities | 0 |
| 5 | Ram prabhakar Singh | 35 | NULL | NULL | 1 |
5 rows in set (0.00 sec)
//Update
mysql> update faculty set subject="History" where id = 5;
Query OK, 1 row affected (0.01 sec)
//table creation for left join -
```

```
mysgl> create table students(id int primary key, student name
varchar(50),age int,subject varchar(50),dept varchar(25));
Query OK, 0 rows affected (0.02 sec)
mysql> insert into students values(1,"ajay
verma",17,"maths","science");
Query OK, 1 row affected (0.01 sec)
mysql> insert into students values(2,"subhash
goel",17,"physics","science");
Query OK, 1 row affected (0.01 sec)
mysql> insert into students values(3,"vidita
kumari",17,"History","Humanities");
Query OK, 1 row affected (0.01 sec)
mysal> select * from students;
| id | student name | age | subject | dept
+----+------------+
| 1 | ajay verma | 17 | maths | science |
2 | subhash goel | 17 | physics | science |
| 3 | vidita kumari | 17 | History | Humanities |
| 4 | jai sinha | 18 | accounts | Commerce |
```

4 rows in set (0.00 sec)

mysql> select faculty.name as teacher, students.student_name from faculty left join students on faculty.Subject = students.subject;

LEFT JOIN operation on table Students and Faculty -

```
mysql> create table students(id int primary key,student_name varchar(50),age int,subject varchar(50),dept varchar(25));
Query OK, 0 rows affected (0.02 sec)
<code>mysql></code> insert into students values(1,"ajay verma",17,"maths","science"); Query OK, 1 row affected (0.01 sec)
mysql> insert into students values(2,"subhash goel",17,"physics","science");
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.01 sec)
ERROR 1062 (23000): Duplicate entry '3' for key 'students.PRIMARY' mysql> insert into students values(4,"jai sinha",18,"accounts","Commerce"); Query OK, 1 row affected (0.01 sec)
   1 | ajay verma
                                17 | physics
17 | History
        subhash goel
   4 | jai sinha
4 rows in set (0.00 sec)
mysql> select faculty.name as teacher, students.student_name from faculty left join students on faculty.Subject = students.subject;
                              student_name
  teacher
   Naman Sharma
   Arjun Dubey
                               subhash goel
  Roshni Singh | NULL
Ram prabhakar Singh | vidita kumari
```

MongoDB -

```
//crate and use database by - use school
//to create collection create Collection
db.createCollection("Students");

//insert one data -
db.Faculty.insertOne({
  Name: "Sachin Singh",
  Age: 33,
  Subject: "Physics",
  Dept: "Science",
  Active: true,
});

db.Faculty.insertOne({
  Name: "Chandan Mahto",
```

```
Age: 42,
  Subject: "Maths",
 Dept: "Science",
 Active: true,
});
db.Faculty.insertMany([
 {
   Name: "Arnav kapoor",
    Age: 30,
    Subject: "Accounts",
    Dept: "Commerce",
    Active: true,
  },
    Name: "Abhay Sinha",
    Age: 40,
    Subject: "Chemistry",
    Dept: "Science",
    Active: true,
  },
    Name: "Garv Choudhary",
    Age: 49,
    Subject: "History",
    Dept: "Humanities",
    Active: false,
  },
    Name: "Kaushal Kumar",
    Age: 53,
    Subject: "Biology",
    Dept: "Science",
    Active: false,
 },
]);
db.Faculty.findOne();
db.Faculty.findMany();
```

```
db.Faculty.deleteOne({"Active":false,"Age":{$gt:50}})
db.Faculty.deleteMany({"Active":false})

//update document
db.Faculty.updateOne({"Active":false},{$set:{"Name":"Garvit Choudhary"}})
```