Assignment-1 MongoDB Queries

1.

```
assignment1> db.assignment1.find(
... { department: "IT" },
... { _id: 0, name: 1, cgpa: 1 }
... );
[
    { name: 'Aditya Patel', cgpa: 8.7 },
    { name: 'Vikas Nair', cgpa: 8.4 },
    { name: 'Karan Gupta', cgpa: 8.9 },
    { name: 'Dev Mishra', cgpa: 8.6 }
]
assignment1> |
```

2.

3.

4.

Name –

VANSH GUPTA

Sec - AE(69)

Roll No. -

2315002398

6.

```
assignment1> db.assignment1.find().sort({ cgpa: -1 }).limit(3);

{
    _id: ObjectId('684f01dcbfd1c07e6a50eb70'),
    roll_no: 'CSE2301',
    name: 'Meera Joshi',
    year: 4,
    department: 'CSE',
    cgpa: 9.3,
    email: 'meera.cse@univ.edu'
},

{
    _id: ObjectId('684f01dcbfd1c07e6a50eb6c'),
    roll_no: 'CSE2201',
    name: 'Neha Jain',
    year: 3,
    department: 'CSE',
    cgpa: 9.1,
    email: 'neha.cse@univ.edu'
},

{
    _id: ObjectId('684f01dcbfd1c07e6a50eb6a'),
    roll_no: 'CSE2104',
    name: 'Simran Kaur',
    year: 2,
    department: 'CSE',
    cgpa: 9,
    email: 'simran.cse@univ.edu'
}

assignment1> |
```

7.

```
assignment1> db.assignment1.updateMany(
... { department: "CSE" },
... { $inc: { cgpa: 0.2 } }
... );
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 6,
   modifiedCount: 6,
   upsertedCount: 0
}
assignment1> |
```

9.

```
assignment1> db.assignment1.updateMany(
... { cgpa: { $lt: 7.0 } },
... { $set: { department: "Probation" } }
...);
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
assignment1> |
```

10.

```
assignment1> db.assignment1.updateMany(
... { department: "ME" },
... { $unset: { email: 1 } }
... );
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 5,
   modifiedCount: 5,
   upsertedCount: 0
}
assignment1> |
```

11.

```
assignment1> db.assignment1.updateMany(
... {},
... { $rename: { "cgpa": "gpa" } }
... );
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 20,
   modifiedCount: 20,
   upsertedCount: 0
}
assignment1> |
```

```
assignment1> db.assignment1.replaceOne(
... { roll_no: "CSE2104" },
... {
... roll_no: "CSE2104",
... name: "Simran Kaur",
... year: 2,
... department: "CSE",
... cgpa: 9.5,
... email: "simrankaur.cse@univ.edu"
... }
... );
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0
}
assignment1>
```