Mongo DB

Write a query to insert student details in student collection

```
db.student_details.insertMany([
       "student_name" : "sam",
       "student_id": "S01",
       "class": "IT",
       "batch": "B10",
       "subject": "DBMS",
       "attendance_details" : [
         {
            "date": "22-Jan-2020",
            "attended": false
         },
            "date": "23-Jan-2020",
            "attended": false
         },
            "date": "24-Jan-2020",
            "attended": false
       "student_name": "bran",
       "student_id": "S02",
       "class": "IT",
       "batch": "B10",
       "subject": "DBMS",
       "attendance_details" : [
         {
            "date": "22-Jan-2020",
            "attended" : false
         },
            "date": "23-Jan-2020",
            "attended": false
            "date": "24-Jan-2020",
            "attended": false
```

```
"student_name": "bran",
  "student_id": "S03",
  "class": "IT",
  "batch": "B10",
  "subject": "DBMS",
  "attendance_details" : [
        "date": "22-Jan-2020",
        "attended" : false
     },
        "date": "23-Jan-2020",
        "attended": false
     },
        "date": "24-Jan-2020",
        "attended": false
  "student_name": "sana",
  "student_id": "S04",
  "class": "IT",
  "batch" : "B11",
  "subject": "Java",
  "attendance_details" : [
        "date": "22-Jan-2020",
        "attended" : false
     },
       "date": "23-Jan-2020",
        "attended": false
     },
        "date": "24-Jan-2020",
        "attended": false
},
```

```
"student_name": "arya",
  "student_id": "S05",
  "class": "IT",
  "batch": "B11",
  "subject": "Java",
  "attendance_details" : [
       "date": "22-Jan-2020",
        "attended" : false
     },
        "date": "23-Jan-2020",
        "attended": false
     },
        "date": "24-Jan-2020",
        "attended": false
  "student_name": "saara",
  "student_id":"S06",
  "class": "IT",
  "batch": "B11",
  "subject": "Java",
  "attendance_details" : [
        "date": "22-Jan-2020",
        "attended": false
     },
       "date": "23-Jan-2020",
        "attended": false
     },
       "date": "24-Jan-2020",
        "attended": false
},
  "student_name":"kalpu",
```

```
"student_id":"S07",
       "class": "IT",
       "batch": "B11",
       "subject": "Java",
       "attendance_details" : [
          {
             "date": "22-Jan-2020",
             "attended" : false
          },
             "date": "23-Jan-2020",
             "attended": false
          },
             "date": "24-Jan-2020",
             "attended": false
       ]
     },
       "student_name": "mani",
       "student_id": "S08",
       "class": "IT",
       "batch": "B12",
       "subject": "Multimedia",
       "attendance_details" : [
             "date": "22-Jan-2020",
             "attended" : false
          },
             "date": "23-Jan-2020",
             "attended": false
          },
             "date": "24-Jan-2020",
             "attended": false
       ]
     },
...
       "student_name": "lachuuu",
       "student_id": "S09",
       "class": "IT",
```

```
... "batch": "B12",
... "subject": "Multimedia",
... "attendance_details": [
... {
... "date": "22-Jan-2020",
... "attended": false
... },
... {
... "date": "23-Jan-2020",
... "attended": false
... },
... {
... "date": "24-Jan-2020",
... "attended": false
... }
... ]
... ]
... ]
```

Write a query to insert batch details in batch collection

```
> db.batch_details.insertMany([
... {
... "batch_name": "B10",
... "attending_students": ["S01", "S02", "S03"]
...
... },
... {
... "batch_name": "B11",
... "attending_students": ["S04", "S05", "S06", "S07"]
... },
... {
... "batch_name": "B12",
... "attending_students": ["S08", "S09"]
... }
... ]);
```

Every batch will contain fields representing students attending the batch on a particular date.

A student will belong to only one batch.

```
[{
  $match: {
        $and : [{
               "batch_name" : "B10"
               },
               {
               "attending_students" : {
                       $in : ["S04"]
               }
               }]
}},
{
        $lookup:{
               from: "students",
               localField: 'string',
               foreignField: 'string',
               as: 'students'
}
}]
```

Each batch inside the batch collection will contain multiple students attending the respective batch.

SQL

Write a sql query to display a table containing students attending batch1 along with their attendance history

Select student_id, student_name, batch, attendance_history from student inner join batch where batch = "B01";

Write a sql query to display a table containing batch details and attendance history of student 1

Select batch, subject, timing, attendance_history from student inner join batch;