Mongo db

Create a student collection with all student details.

Create a batch collection with multiple batches and its corresponding details.

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

A student will belong to only one batch.

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

Questions

Write a query to insert student details in student collection

Write a query to insert batch details in batch collection

Write a query to Mark attendance for the students at respective batch on Jan 23 2020.

Write a query to display the batch details and attendance history of student 1.

Write a query to display the students attending batch1 along with their attendance history

SQL

Create a schema to represent A Student with all the student details and a Batches with all the batch details with students attending the batches.

Execute the following queries in the schema.

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

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

1. Write a query to insert student details in student collection

{

"\_id" : ObjectId("606f34467d65515084a67369"),

"name" : "Vivek",

"passedOut" : "2025",

"batch" : "A",

"class" : "10"

}

{

"\_id" : ObjectId("606f34467d65515084a6736a"),

"name" : "Sandhya",

"passedOut" : "2025",

"batch" : "B",

"class" : "10"

}

{

"\_id" : ObjectId("606f34467d65515084a6736b"),

"name" : "Gokul",

"passedOut" : "2025",

"batch" : "A",

"class" : "10"

}

{

"\_id" : ObjectId("606f34467d65515084a6736c"),

"name" : "Amar",

"passedOut" : "2025",

"batch" : "B",

"class" : "10"

}

{

"\_id" : ObjectId("606f34467d65515084a6736d"),

"name" : "Akhil",

"passedOut" : "2025",

"batch" : "A",

"class" : "10"

}

{

"\_id" : ObjectId("606f34467d65515084a6736e"),

"name" : "Soundharya",

"passedOut" : "2025",

"batch" : "B",

"class" : "10"

}

1. Write a query to insert batch details in batch collection

{

"\_id" : ObjectId("606f2f887d65515084a67367"),

"batchName" : "A",

"attendance" : [

{

"date" : "25/01/2020",

"attendees" : [

"Vivek",

"Sandhya"

]

},

{

"date" : "28/01/2020",

"attendees" : [

"Vivek",

"Gokul"

]

},

{

"date" : "29/01/2020",

"attendees" : [

"Vivek",

"Gokul",

"Sandhya"

]

}

]

}

{

"\_id" : ObjectId("606f2f887d65515084a67368"),

"batchName" : "B",

"attendance" : [

{

"date" : "21/01/2020",

"attendees" : [

"Amar",

"Akhil"

]

},

{

"date" : "28/01/2020",

"attendees" : [

"Soundarya",

"Akhil"

]

},

{

"date" : "29/01/2020",

"attendees" : [

"Amar",

"Soundarya",

"Akhil"

]

}

]

}

1. db.batch.update({batchName:"A"},{$push: {

"attendees": [

{

"date": "23/01/2020",

"attendees": ["Vivek","Sandhya","Amar"]

}

]

}});

[{

$match: {

$and: [{

"batchName": "A"

}, {

"attendance.attendees": {

$in: ["Vivek"]

}

}]

}

}, {

$lookup: {

from: "students",

localField: 'string',

foreignField: 'string',

as: 'students'

}

}]

5. [{

$match: {

"batch": "A"

}

}, {

$lookup: {

from: 'batch',

localField: 'string',

foreignField: 'string',

as: 'batch'

}

}]

SQL

create table students (id integer PRIMARY KEY, name varchar(100), batch varchar(100),class varchar(10),varchar(10) );

insert into students (id, name,passedout, batch,class) values (1, Vivek,2025, 'A',"10");

insert into students (id, name,passedout, batch,class) values (2, Sandhya,2025,'B',"10");

insert into students (id, name,passedout, batch,class) values (3, Gokul,2025, 'A',"10");

insert into students (id, name,passedout, batch,class) values (4, Amar,2025, 'B',"10");

insert into students (id, name,passedout, batch,class) values (5, Akhil,2025, 'A',"10");

insert into students (id, name,passedout, batch,class) values (6, Soundharya,2025, 'B',"10");

select \* from students;