



ATME  
College of Engineering



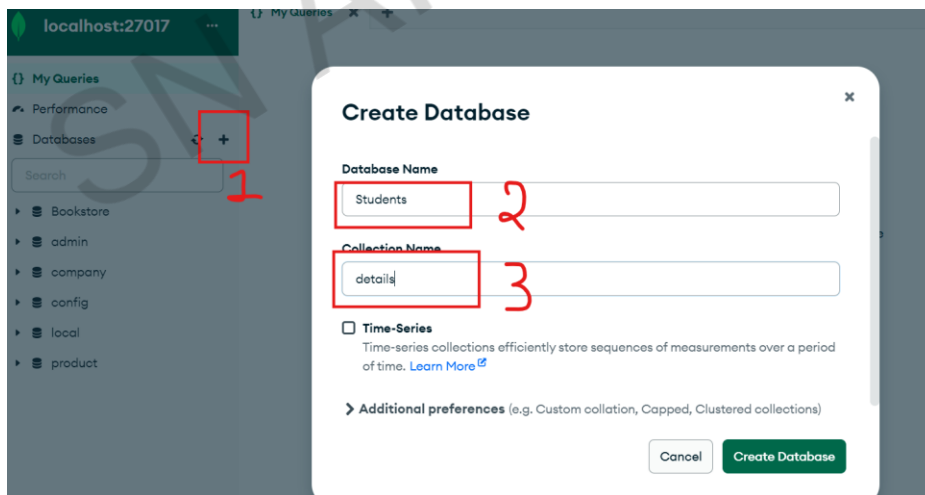
## Program 2

- a. Develop a MongoDB query to select certain fields and ignore some fields of the documents from any collection.

**Syntax:** `db.collection.find({}, { field1: 1, field2: 1, _id: 0 })`

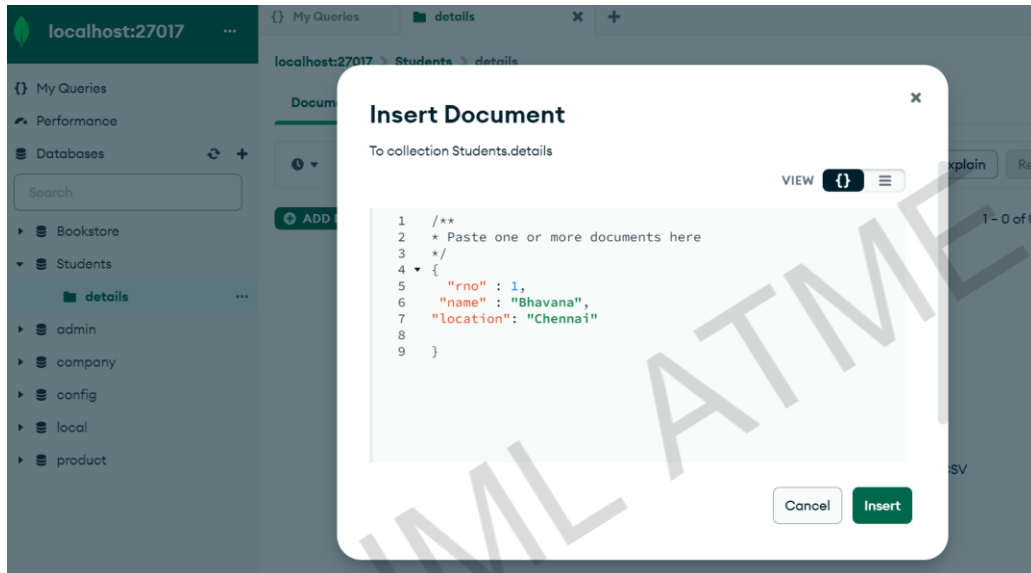
- `db.collection.find({})` is used to retrieve all documents from the collection.
- `{ field1: 1, field2: 1, _id: 0 }` specifies the projection document where:
- `field1: 1` and `field2: 1` indicates that these fields will be included in the result.
- `_id: 0` indicates that the `_id` field will be excluded from the result.

Create a database **Students** and collection **details** in Mongo DB IDE.

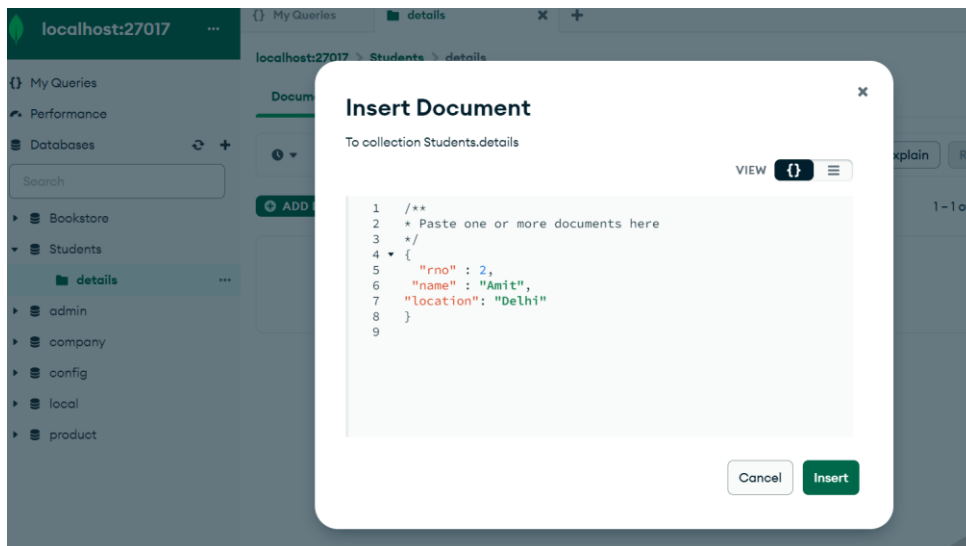


Add the following documents in the **details collection** in MongoDB IDE.

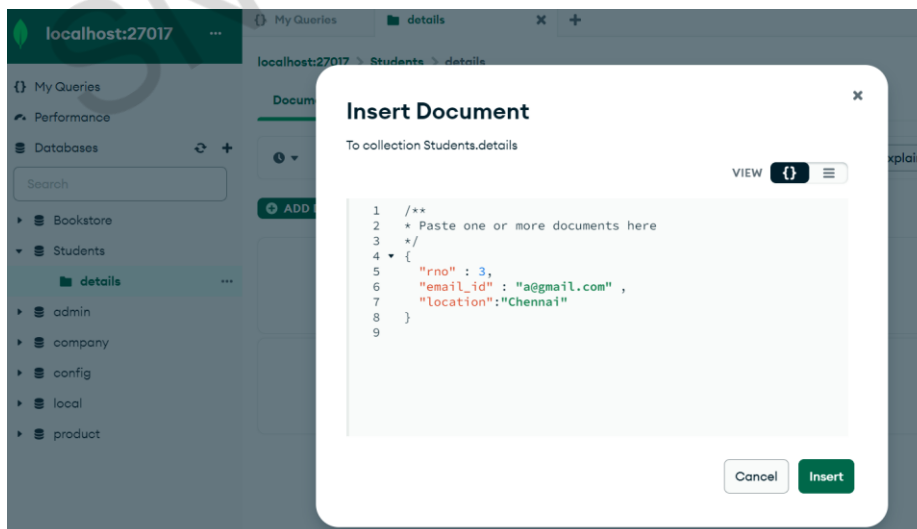
```
{  
  "rno" : 1,  
  "name" : "Bhavana",  
  "location": "Chennai"  
}
```



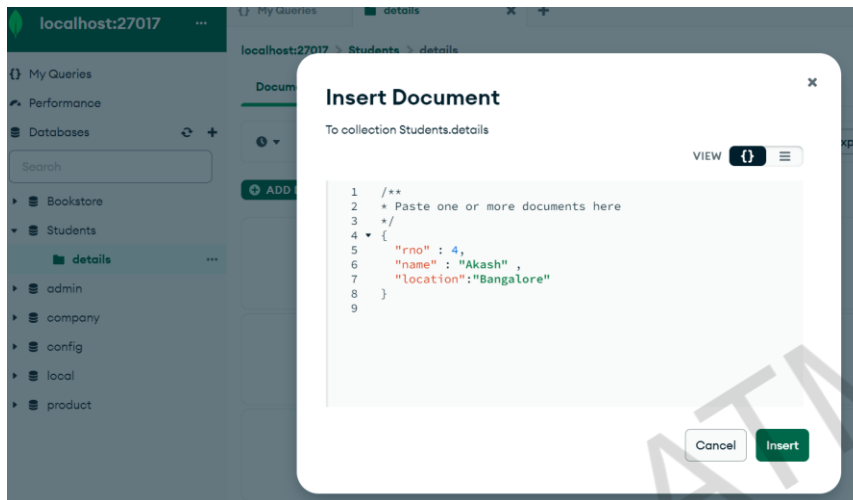
```
{  
  "rno" : 2,  
  "name" : "Amit",  
  "location": "Delhi"  
}
```



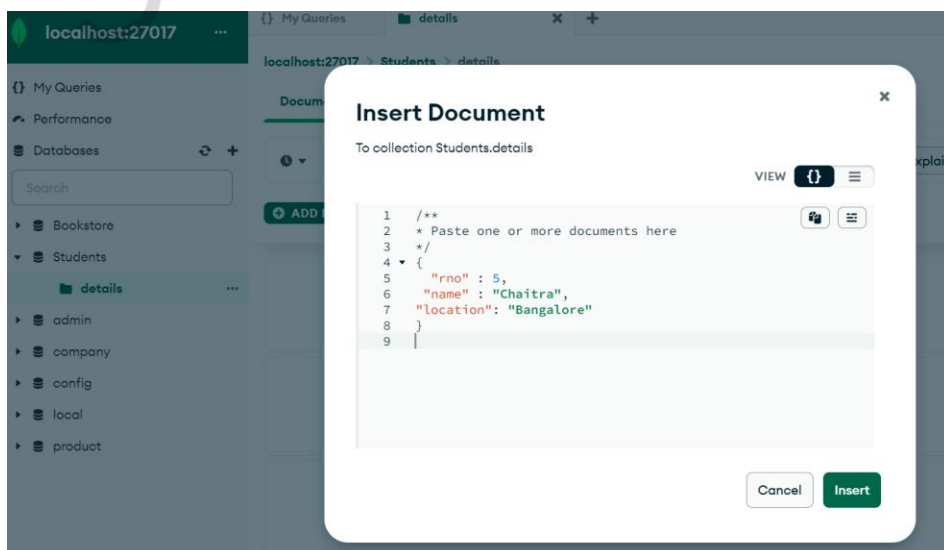
```
{
  "rno" : 3,
  "email_id" : "a@gmail.com",
  "location": "Chennai"
}
```



```
{  
  "rno" : 4,  
  "name" : "Akash",  
  "location": "Bangalore"  
}
```



```
{  
  "rno" : 5,  
  "name" : "Chaitra",  
  "location": "Bangalore"  
}
```



**//Find command with condition with giving name field only to show**

**> db. details.find({rno:5},{name:1})**

**Output:**

```
< {
  _id: ObjectId('6657fc8f71d6430d301e012a'),
  name: 'Chaitra'
}
```

**//Find command with condition with giving name field only to show and \_id to hide**

**>db. details.find({rno:5},{name:1,\_id:0})**

**Output:**

```
< {
  name: 'Chaitra'
}
```

**// Find command to show only names without condition**

**> db. details.find({}, {name:1, \_id:0})**

```
< {
  name: 'Bhavana'
}
{
  name: 'Amit'
}
{}
{
  name: 'Akash'
}
{
  name: 'Chaitra'
}
```

- b. Develop a MongoDB query to display the first 5 documents from the results obtained in a. [use of limit and find]

**Limit Operation:** Used to restrict the number of documents returned by a query. This is particularly useful when you're dealing with large datasets and you only need a subset of documents.

**Syntax:** `db.collection.find({}, { field1: 1, field2: 1, _id: 0 }).limit(5)`

- Limit (5) limits the number of documents returned to 5.
- **// Limit use to show only some records from starting- following command shows only first 2 records from collection**

**> db. details.find().limit(2)**

**Output:**

```
< {
  _id: ObjectId('6657fb2171d6430d301e0122'),
  rno: 1,
  name: 'Bhavana',
  location: 'Chennai'
}
{
  _id: ObjectId('6657fb3171d6430d301e0124'),
  rno: 2,
  name: 'Amit',
  location: 'Delhi'
}
```

>db.details.find().limit(5)

Output:

```
< {
  _id: ObjectId('6657fb2171d6430d301e0122'),
  rno: 1,
  name: 'Bhavana',
  location: 'Chennai'
}
{
  _id: ObjectId('6657fb3171d6430d301e0124'),
  rno: 2,
  name: 'Amit',
  location: 'Delhi'
}
```

```
{
  _id: ObjectId('6657fb4171d6430d301e0126'),
  rno: 3,
  email_id: 'a@gmail.com',
  location: 'Chennai'
}
{
  _id: ObjectId('6657fb5371d6430d301e0128'),
  rno: 4,
  name: 'Akash',
  location: 'Bangalore'
}
```

```
{  
  _id: ObjectId('6657fc8f71d6430d301e012a'),  
  rno: 5,  
  name: 'Chaitra',  
  location: 'Bangalore'  
}
```

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