

```
mysql> create database pravalika;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use pravalika;
```

```
Database changed
```

```
mysql> create table department(dept_id varchar(30) primary key,dept_name varchar(30));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> create table year(yearno int primary key);
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create table students(stud_id varchar(30) primary key,stud_name varchar(30),dep_name  
varchar(30),dp_id varchar(30),foreign key(dp_id) references department
```

```
(dept_id),y_no int,foreign key(y_no) references year(yearno));
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> insert into department values('661','CSE');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into department values('771','IT');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into department values('662','CSE');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into department values('772','IT');
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from department;
```

```
+-----+-----+
```

```
| dept_id | dept_name |
```

```
+-----+-----+
```

```
| 661 | CSE |
```

```
| 771 | IT |
```

```
| 662 | CSE |
```

```
| 772 | IT |
```

```
+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> insert into year values(1);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into year values(2);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into year values(3);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into year values(4);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from year;
```

```
+-----+
```

```
| yearno |
```

```
+-----+
```

```
| 1 |
```

```
| 2 |
```

```
| 3 |
```

```
| 4 |
```

```
+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> insert into students values('stud1','A','CSE','661',1);
```

Query OK, 1 row affected (0.03 sec)

```
mysql> insert into students values('stud2','B','CSE','661',1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud3','B','CSE','661',1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud4','B','CSE','661',1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud5','B','CSE','661',1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud6','C','IT','771',2);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud7','D','IT','772',3);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud8','A','IT','771',2);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud9','B','IT','772',2);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud10','E','IT','772',1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud11','AA','ECE','772',1);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into students values('stud122','AA','ECE','551',2);
```

```
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into students values('stud13','BB','ECE','551',3);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into students values('stud14','CC','ECE','551',2);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into students values('stud15','DD','ECE','551',1);
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from students;
```

```
+-----+-----+-----+-----+-----+
| s_id | sname | dept_name | dp_id | y_no |
+-----+-----+-----+-----+-----+
| stud0 | E     | IT        | 771   | 1    |
| stud1 | A     | CSE       | 662   | 1    |
| stud2 | B     | CSE       | 662   | 1    |
| stud3 | B     | CSE       | 661   | 1    |
| stud4 | B     | CSE       | 662   | 1    |
| stud5 | B     | CSE       | 661   | 1    |
| stud6 | C     | IT        | 771   | 2    |
| stud7 | D     | IT        | 771   | 3    |
| stud8 | A     | IT        | 772   | 3    |
| stud9 | B     | IT        | 771   | 2    |
| stud10 | AA    | ECE       | 551   | 1    |
| stud12 | AA    | ECE       | 551   | 2    |
| stud13 | BB    | ECE       | 551   | 3    |
| stud14 | CC    | ECE       | 551   | 2    |
```

stud15	DD	ECE	551	3
--------	----	-----	-----	---

+-----+	+-----+	+-----+	+-----+	+-----+
---------	---------	---------	---------	---------

15 rows in set (0.00 sec)

mysql> select stud_id from students where dept_name='CSE';

+-----+

stud_id

+-----+

stud1

stud2

stud3

stud4

stud5

+-----+

5 rows in set (0.00 sec)

mysql> select stud_id,stud_name from students where dept_name='CSE';

+-----+	+-----+
---------	---------

stud_id	stud_name
---------	-----------

+-----+	+-----+
---------	---------

stud1	A
-------	---

stud2	B
-------	---

stud3	B
-------	---

stud4	B
-------	---

stud5	B
-------	---

+-----+	+-----+
---------	---------

5 rows in set (0.00 sec)

mysql> select dept_name from students;

+-----+

dept_name

```

+-----+
| IT     |
| CSE    |
| CSE    |
| CSE    |
| CSE    |
| CSE    |
| IT     |
| IT     |
| IT     |
| IT     |
| ECE    |
| ECE    |
| ECE    |
| ECE    |
| ECE    |

```

```

+-----+

```

15 rows in set (0.00 sec)

```
mysql> select stud_id,stud_name from students order by dept_id;
```

```

+-----+-----+

```

```

| stud_id | stud_name |

```

```

+-----+-----+

```

```

| stud1  | A   |
| stud2  | B   |
| stud3  | B   |
| stud4  | B   |
| stud5  | B   |
| stud0  | E   |
| sstud6 | C   |
| stud7  | D   |

```

stud8	A	
stud9	B	
stud11	AA	
stud12	AA	
stud3	BB	
stud4	CC	
stud5	DD	

+-----+-----+

15 rows in set (0.00 sec)

mysql> select stud_id,stud_name from students order by dept_id,sname;

+-----+-----+

stud_id	stud_name	
---------	-----------	--

+-----+-----+

stud1	A	
stud2	B	
stud3	B	
stud4	B	
stud5	B	
stud8	A	
stud9	B	
stud6	C	
stud7	D	
stud0	E	
stud11	AA	
stud12	AA	
stud13	BB	
stud14	CC	
stud15	DD	

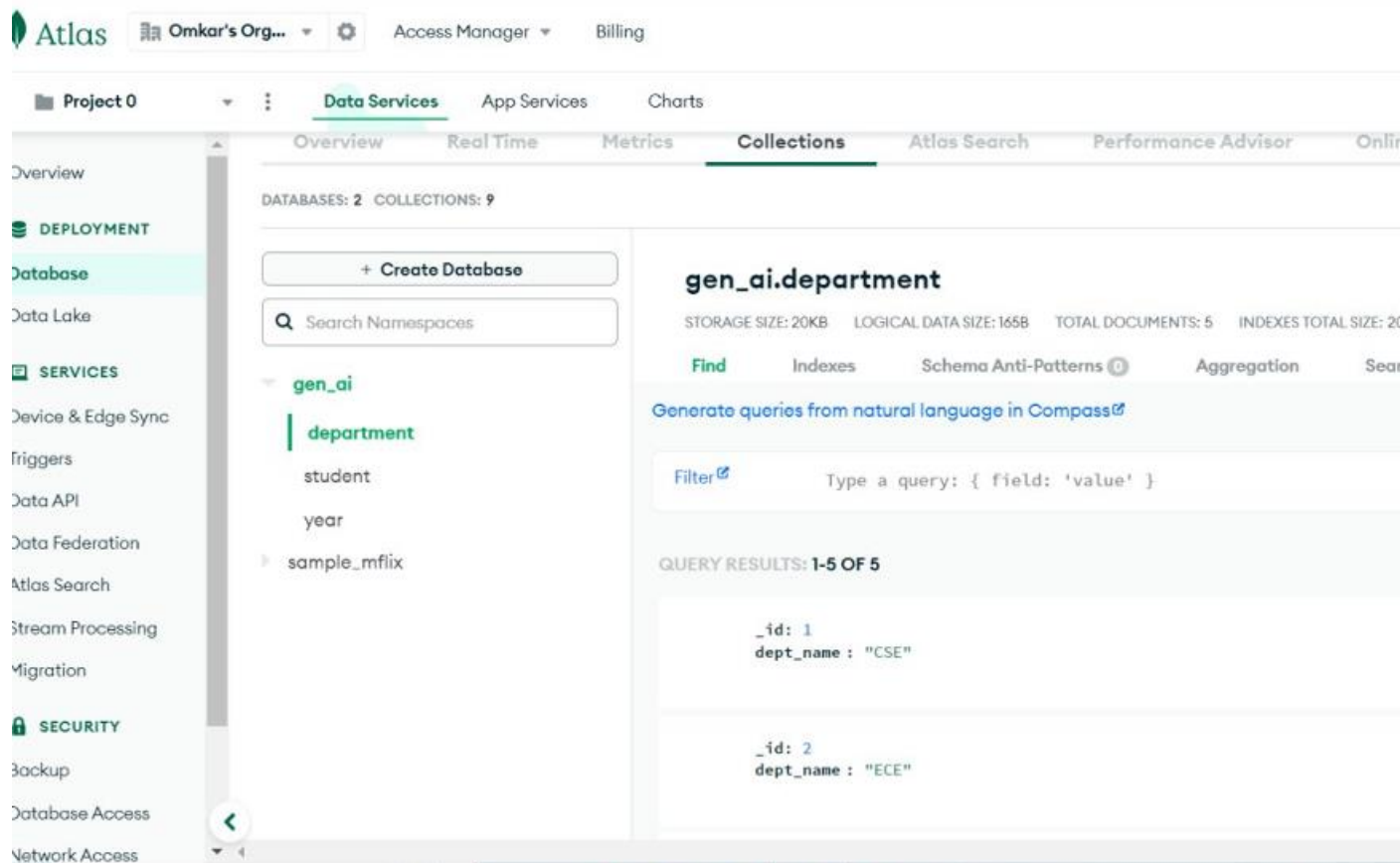
+-----+-----+

15 rows in set (0.00 sec)

use chatgpt and ask like "this is my table in mysql how can i create same in mongodb"

//Creating a database called gen_ai in mongodb and Adding collections called Department,Year and Students using mango db atlas

#Department collection



#Year Collection



Omkar's Org...



Access Manager

Billing

Project 0

Data Services

App Services

Charts

Overview

DEPLOYMENT

Database

Data Lake

SERVICES

Device & Edge Sync

Triggers

Data API

Data Federation

Atlas Search

Stream Processing

Migration

SECURITY

Backup

Database Access

Network Access

+ Create Database

Search Namespaces

gen_ai

department

student

year

sample_mflix

gen_ai.year

STORAGE SIZE: 20KB

LOGICAL DATA SIZE: 144B

TOTAL DOCUMENTS: 4

INDEXES TOTAL SIZE: 144B

Find

Indexes

Schema Anti-Patterns

Aggregation

Security

[Generate queries from natural language in Compass](#)

Filter

Type a query: { field: 'value' }

QUERY RESULTS: 1-4 OF 4

```
{
  "_id": 1
  "year_name": "Year 1"
}
```

```
{
  "_id": 2
  "year_name": "Year 2"
}
```

```
{
  "_id": 3
}
```

#student collection



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+ Create Database

Search Namespaces

gen_ai

department

student

year

sample_mflix

gen_ai.student

STORAGE SIZE: 20KB

LOGICAL DATA SIZE: 1.45KB

TOTAL DOCUMENTS: 20

INDEXES TOTAL SIZE: 1.45KB

Find

Indexes

Schema Anti-Patterns

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Security

[Generate queries from natural language in Compass](#)

Filter

Type a query: { field: 'value' }

QUERY RESULTS: 1-20 OF 20

```
{
  "_id": 1
  "student_name": "Student 1 - CSE"
  "dept_id": 1
  "year_id": 1
}
```

```
{
  "_id": 2
  "student_name": "Student 2 - CSE"
  "dept_id": 1
  "year_id": 2
}
```