

```
CREATE TABLE department (  
    department_id INT AUTO_INCREMENT PRIMARY KEY,  
    department_name VARCHAR(100) UNIQUE NOT NULL  
);
```

```
CREATE TABLE year (  
    year_id INT AUTO_INCREMENT PRIMARY KEY,  
    year_name VARCHAR(50) UNIQUE NOT NULL  
);
```

```
CREATE TABLE students (  
    student_id INT AUTO_INCREMENT PRIMARY KEY,  
    first_name VARCHAR(50) NOT NULL,  
    last_name VARCHAR(50) NOT NULL,  
    email VARCHAR(100) UNIQUE NOT NULL,  
    department_id INT,  
    year_id INT,  
    FOREIGN KEY (department_id) REFERENCES department(department_id),  
    FOREIGN KEY (year_id) REFERENCES year(year_id)  
);
```

```
INSERT INTO department (department_name) VALUES ("CSE"),("EEE"),("Mech"),("Civil");
```

```
INSERT INTO year (year_name) VALUES ('III year'),('II year'),('I year'),('IV year');
```

```
INSERT INTO students (first_name, last_name, email, department_id, year_id) VALUES
```

```
('naveen', 'kumar', 'naveen@gmail.com', 1, 1),
```

```
('abhi', 'bale', 'abhi@gmail.com', 2, 2),
```

```
('phani', 'naidu', 'phani@gmail.com', 3, 3),
```

```
('santhanam', 'pintu', 'santhanam@gmail.com', 4, 4);
```

```
SELECT * FROM department;
```

department_id	department_name
4	Civil
1	CSE
2	EEE
3	Mech

SELECT * FROM year;

year_id	year_name
3	I year
2	II year
1	III year
4	IV year

SELECT * FROM students;

student_id	first_name	last_name	email	department_id	year_id
1	naveen	kumar	naveen@gmail.com	1	1
2	abhi	bale	abhi@gmail.com	2	2
3	phani	naidu	phani@gmail.com	3	3
4	santhanam	pintu	santhanam@gmail.com	4	4

SELECT students.student_id, students.first_name, students.last_name, students.email,
department.department_name, year.year_name

FROM students

JOIN department ON students.department_id = department.department_id

JOIN year ON students.year_id = year.year_id

ORDER BY department.department_name, students.first_name, students.last_name;

student_id	first_name	last_name	email	department_name	year_name
4	santhanam	pintu	santhanam@gmail.com	Civil	IV year
1	naveen	kumar	naveen@gmail.com	CSE	III year
2	abhi	bale	abhi@gmail.com	EEE	II year
3	phani	naidu	phani@gmail.com	Mech	I year

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STORAGE SIZE: 4KBLOGICAL DATA SIZE: 0BTOTAL DOCUMENTS: 0INDEXES TOTAL SIZE: 4KB

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Generate queries from natural language in Compass

INSERT DOCUMENT

FilterType a query: { field: 'value' }ResetApplyOptions

QUERY RESULTS: 1-3 OF 3

_id: ObjectId('664ec915dcc8866be54b483f')

department_id: 3

department_name: "EEE"

_id: ObjectId('664ec93edcc8866be54b5726')

department_id: 4

department_name: "Mech"

_id: ObjectId('664ec97cdcc8866be54b6d72')

department_id: 1

System Status: All Good

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Generate queries from natural language in Compass

INSERT DOCUMENT

FilterType a query: { field: 'value' }ResetApplyOptions

QUERY RESULTS: 1-2 OF 2

_id: ObjectId('664ecbb7dcc8866be54c39ab')

year_name: "II year"

_id: ObjectId('664ecbb7dcc8866be54c39ac')

year_name: "I year"

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STORAGE SIZE: 36KB

LOGICAL DATA SIZE: 4348

TOTAL DOCUMENTS: 4

INDEXES TOTAL SIZE: 36KB

Find

Indexes

Schema Anti-Patterns

Aggregation

Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter

Type a query: { field: 'value' }

Reset

Apply

Options

QUERY RESULTS: 1-4 OF 4

_id: ObjectId('664ec3dedcc8866be5496545')

student_id: 4

first_name: "santhanam"

last_name: "pintu"

email: "santhanam@gmail.com"

department_name: "Civil"

year_name: "IV year"

_id: ObjectId('664ec3f8dcc8866be5496db5')

student_id: 1

first_name: "naveen"

last_name: "kumar"

System Status: All Good

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