Clarusway

Backend
Teamwork
-4-

# Teamwork

Subject: ORM & Sequelize

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Subject:

Learning Goals

- Being able to perform db operation with js codes.

Introduction

We performed operations on relational databases with SQL. Now let's do a study to perform similar operations via js codes.

Lets start

Write js statements corresponding to the SQL statements given below.

1.

```
SELECT *
FROM people
```

```
db.people.find({})
```

2.

```
SELECT id,
       user_id,
       status
FROM people
```

```
db.people.find({}, { _id: 1, user_id: 1, status: 1 })
```

3.

```
SELECT user_id, status
FROM people
```

```
db.people.find({}, { user_id: 1, status: 1 })
```

4.

```
SELECT *
FROM people
WHERE status = "A"
```

```
db.people.find({ status: "A" })
```

5.

```
SELECT user_id, status
FROM people
WHERE status = "A"
```

```
db.people.find({ status: "A" }, { user_id: 1, status: 1 })
```

6.

```
SELECT *
FROM people
WHERE status != "A"
```

```
db.people.find({ status: { $ne: "A" } })
```

7.

```
SELECT *
FROM people
WHERE status = "A"
AND age = 50
```

```
db.people.find({ status: "A", age: 50 })
```

8.

```
SELECT *
FROM people
WHERE status = "A"
OR age = 50
```

```
db.people.find({ $or: [ { status: "A" }, { age: 50 } ] })
```

9.

```
SELECT *
FROM people
WHERE age > 25
```

```
db.people.find({ age: { $gt: 25 } })
```

10.

```
SELECT *
FROM people
WHERE age < 25
```

```
db.people.find({ age: { $lt: 25 } })
```

11.

```
SELECT *
FROM people
WHERE age > 25
AND   age <= 50
```

```
db.people.find({ age: { $gt: 25, $lte: 50 } })
```

12.

```
SELECT *
FROM people
WHERE user_id like "%bc%"
```

```
db.people.find({ user_id: { $regex: /bc/ } })
```

13.

```
SELECT *
FROM people
WHERE status = "A"
ORDER BY user_id ASC
```

```
db.people.find({ status: "A" }).sort({ user_id: 1 })
```

14.

```
SELECT *
FROM people
WHERE status = "A"
ORDER BY user_id DESC
```

```
db.people.find({ status: "A" }).sort({ user_id: -1 })
```

15.

```
SELECT COUNT(*)
FROM people
```

```
db.people.count()
```

16.

```
SELECT COUNT(user_id)
FROM people
```

```
db.people.count({ user_id: { $exists: true } })
```

17.

```
SELECT COUNT(*)
FROM people
WHERE age > 30
```

```
db.people.count({ age: { $gt: 30 } })
```

18.

```
SELECT DISTINCT(status)
FROM people
```

```
db.people.distinct("status")
```

19.

```
SELECT *
FROM people
LIMIT 1
```

```
db.people.findOne()
```

20.

```
SELECT *
FROM people
LIMIT 5
SKIP 10
```

```
db.people.find().limit(5).skip(10)
```

21.

```
CREATE TABLE people (
    id MEDIUMINT NOT NULL
        AUTO_INCREMENT,
    user_id Varchar(30),
    age Number,
    status char(1),
    PRIMARY KEY (id)
)
```

```

```

22.

```
ALTER TABLE people
ADD join_date DATETIME
```

```

```

23.

```
DROP TABLE people
```

```
db.people.drop()
```

24.

```
INSERT INTO people(user_id,age,status)
VALUES ("bcd001",45,"A")
```

25.

```
UPDATE people
SET status = "C"
WHERE age > 25
```

26.

```
UPDATE people
SET age = age + 3
WHERE status = "A"
```

27.

```
DELETE FROM people
WHERE status = "D"
```

28.

```
DELETE FROM people
```

```
db.people.deleteMany({})
```

☺ Thanks for Attending ✍

Clarusway
