```sql
CREATE TABLE teachers (
    id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    first_name VARCHAR(25) NOT NULL,
    last_name VARCHAR(50),
    school VARCHAR(50) NOT NULL,
    hire_date DATE,
    salary NUMERIC
    );

-- Insert Data
INSERT INTO teachers (id,first_name, last_name, school, hire_date, salary)
    VALUES (1,'Janet', 'Smith', 'MIT', '2011-10-30', 36200),
           (2,'Lee', 'Reynolds', 'MIT', '1993-05-22', 65000),
           (3,'Samuel', 'Cole', 'Cambridge University', '2005-08-01', 43500),
           (4,'Samantha', 'Bush', 'Cambridge University', '2011-10-30', 36200),
           (5,'Betty', 'Diaz', 'Cambridge University', '2005-08-30', 43500),
           (6,'Kathleen', 'Roush', 'MIT', '2010-10-22', 38500),
           (7,'James', 'Diaz', 'Harvard University', '2003-07-18', 61000),
           (8,'Zack', 'Smith', 'Harvard University', '2000-12-29', 55500),
           (9,'Luis', 'Gonzales', 'Standford University', '2002-12-01', 50000),
           (10,'Frank', 'Abbers', 'Standford University', '1999-01-30', 66000);

-- Insert Data
```

DDL_DML | DQL

```sql
5  INSERT INTO teachers (first_name, last_name, school, hire_date, salary)
6      VALUES ('Samuel', 'Abbers', 'Standford University', '2006-01-30', 32000),
7             ('Jessica', 'Abbers', 'Standford University', '2005-01-30', 33000),
8             ('Tom', 'Massi', 'Harvard University', '1999-09-09', 39500),
9             ('Esteban', 'Brown', 'MIT', '2007-01-30', 36000),
0             ('Carlos', 'Alonso', 'Standford University', '2001-01-30', 44000);
1
2  -- Create Table courses
3  CREATE TABLE courses (
4      id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
5      name VARCHAR(20),
6      teachers_id INT,
7      total_students INT
```

```sql
- Insert Data Table courses
INSERT INTO courses (name, teachers_id, total_students)
    VALUES ('Calculus', 2, 20),
           ('Physics', 2, 10),
           ('Calculus', 1, 30),
           ('Computer Science', 1, 20),
           ('Politic', 13, 15),
           ('Algebra', 2, 10),
           ('Algebra', 13, 30),
           ('Computer Science', 10, 35),
           ('Life Science', 11, 20),
           ('Chemistry', 9, 22),
           ('Chemistry', 8, 16),
           ('Calculus', 5, 19),
           ('Politic', 4, 17),
           ('Biology', 6, 22),
           ('Physics', 3, 29),
           ('Biology', 8, 28),
           ('Calculus', 12, 34),
           ('Physics', 13, 34),
           ('Biology', 14, 25),
           ('Calculus', 15, 20);
```

first_n...	last_n...	school	hire_...	salary	id	name	teach...	total_students
Lee	Reynolds	MIT	1993-0...	65000	6	Algebra	2	

SQLite

MariaDB

beta 0.7.7 core.sql....

Table
- courses
- demo
- teachers

Column
- id int(11)
- first_name varchar...
- last_name varchar...
- school varchar(50)
- hire_date date
- salary decimal(10,0)

PostgreSQL

MS SQL

Oracle

Docker

DDL_DML   DQL

```sql
1  SELECT *
2  FROM teachers
3  JOIN courses ON teachers.id=courses.teachers_id
4  WHERE (courses.name, teachers.salary) IN (
5
6    -- Maximum gaji dosen
7
8    SELECT courses.name, MAX(teachers.salary)
9    FROM teachers
10   JOIN courses ON teachers.id=courses.teachers_id
11   GROUP BY courses.name
12 )
13 ORDER BY courses.name ASC
```

! id	first_n...	last_n...	school	hire_...	salary	id	name	teach...	total_students
2	Lee	Reynolds	MIT	1993-0...	65000	6	Algebra	2	

History

Syntax | History

MariaDB.1
```sql
SELECT *
FROM teachers
JOIN courses ON teachers.id=courses.te
WHERE (courses.name, teacher
...
```
1.89ms | 1.94ms | 48.58μs

MariaDB.1
```sql
SELECT * FROM teachers GROUP BY first_r
```
1.72ms | 817.86μs | 118.13μs

MariaDB.1
```sql
SELECT * FROM teachers GROUP BY 'first_
```
2.42ms | 1.16ms | 39.14μs