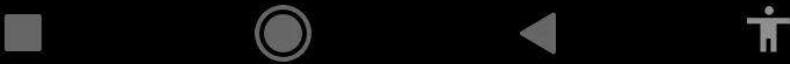


```
Create table student(ID varchar(10) primary key,name varchar(20),dept_name  
varchar(40),tot_cred int);  
  
Insert into student values('CS501','Sara','Computer Science',82);  
  
Insert into student values('CS952','Victor','Computer Science',73);  
  
Insert into student values('CS518','Carlo','Computer Science',30);  
  
Insert into student values('PH690','Alok','Physics',92);  
  
Insert into student values('PH112','Jai','Physics',98);  
  
Insert into student values('PH549','Moco','Physics',38);  
  
Insert into student values('CO985','Maxim','Commerce',62);  
  
Insert into student values('CS911','Andy','Computer Science',68);  
  
Insert into student values('PH995','Wolfrahh','Physics',74);  
  
Insert into student values('CO880','Kelly','Commerce',80);  
  
Insert into student values('PH926','Chrono','Physics',56);  
  
Insert into student values('CH570','Rafel','Chemistry',39);  
  
Insert into student values('CH359','Misha','Chemistry',78);  
  
Insert into student values('CH193','Steffie','Chemistry',60);  
  
Insert into student values('CO884','Hayato','Commerce',82);  
  
Insert into student values('CH218','Andrew','Chemistry',70);  
  
Insert into student values('HI300','Ford','History',68);  
  
Insert into student values('ME762','Caroline','Media&Communication',80);  
  
Insert into student values('HI396','Notora','History',92);  
  
Insert into student values('ME561','Olivia','Media&Communication',91);
```

```
MariaDB [university]> select * from student;
+-----+-----+-----+-----+
| ID    | name     | dept_name | tot_cred |
+-----+-----+-----+-----+
| CH193 | Steffie   | Chemistry  | 60       |
| CH218 | Andrew    | Chemistry  | 70       |
| CH359 | Misha     | Chemistry  | 78       |
| CH570 | Rafel     | Chemistry  | 39       |
| C0880 | Kelly     | Commerce   | 80       |
| C0884 | Hayato    | Commerce   | 82       |
| C0985 | Maxim     | Commerce   | 62       |
| CS518  | Carlo     | Computer Science | 30       |
| CS911  | Andy      | Computer Science | 68       |
| HI300  | Ford      | History    | 68       |
| HI396  | Notora    | History    | 92       |
| ME561  | Olivia    | Media&Communication | 91       |
| ME762  | Caroline  | Media&Communication | 80       |
| PH112  | Jai       | Physics    | 98       |
| PH549  | Moco      | Physics    | 38       |
| PH690  | Alok      | Physics    | 92       |
| PH926  | Chrono    | Physics    | 56       |
| PH995  | Wolfrahh  | Physics    | 74       |
+-----+-----+-----+-----+
18 rows in set (0.001 sec)
```

```
MariaDB [university]> █
```

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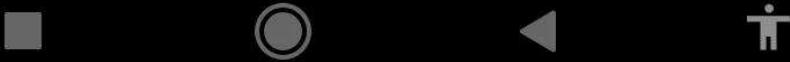


```
Create table instructor(ID int,name varchar(20),dept_name varchar(40),salary int);  
Insert into instructor values(6729,'Mortal','Computer Science',60000);  
Insert into instructor values(2781,'Mr TK','Media&Communication',68000);  
Insert into instructor values(6911,'Viper','Commerce',40000);  
Insert into instructor values(7208,'Gyan Sujan','History',82000);  
Insert into instructor values(4694,'Raistar','Computer Science',98000);  
Insert into instructor values(5719,'Kaztro','Computer Science',87000);  
Insert into instructor values(2689,'Caesar','Chemistry',88000);  
Insert into instructor values(6092,'Einstein','Physics',98000);  
Insert into instructor values(7083,'Bhavanth','Computer Science',75000);  
Insert into instructor values(2103,'Tom Settan','Physics',95000);  
Insert into instructor values(7027,'Ruby Pen','Physics',91000);  
Insert into instructor values(4256,'Melbin','Chemistry',87000);  
Insert into instructor values(1015,'Meenu Nie','History',62000);  
Insert into instructor values(7059,'Nie Ambro','Commerce',65000);  
Insert into instructor values(1494,'KMC Komban','Media&Communication',92000);
```

```
MariaDB [university]> select * from instructor;
+----+-----+-----+-----+
| ID | name      | dept_name        | salary |
+----+-----+-----+-----+
| 6729 | Mortal    | Computer Science | 60000  |
| 5719 | Kaztro    | Computer Science | 87000  |
| 6911 | Viper     | Commerce         | 40000  |
| 4694 | Raistar   | Computer Science | 98000  |
| 7208 | Gyan Sujan | History          | 82000  |
| 2781 | Mr TK     | Media&Communication | 68000  |
| 7083 | Bhavanth   | Computer Science | 75000  |
| 2103 | Tom Settan | Physics           | 95000  |
| 6092 | Einstein   | Physics           | 98000  |
| 2689 | Caesar     | Chemistry         | 88000  |
| 7059 | Nie Ambro  | Commerce         | 65000  |
| 1015 | Meenu Nie  | History          | 62000  |
| 7027 | Ruby Pen   | Physics           | 91000  |
| 4256 | Melbin     | Chemistry         | 87000  |
| 1494 | KMC Komban | Media&Communication | 92000  |
+----+-----+-----+-----+
15 rows in set (0.001 sec)
```

```
MariaDB [university]> █
```

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```
Create table section(course_id varchar(10),sec_id varchar(2),semester varchar(10),year  
int,building varchar(20),room_no int,times_slot_id varchar(2));  
  
Insert into section values('CSSTA2',2,'autumn',2010,'Pochinki',604,'A');  
  
Insert into section values('CSDS37',1,'winter',2009,'Pochinki',604,'C');  
  
Insert into section values('CSAI02',2,'summer',2009,'Pochinki',604,'A');  
  
Insert into section values('CSMF56',2,'autumn',2009,'Pochinki',604,'A');  
  
Insert into section values('CDF022',1,'summer',2009,'Mylta',732,'A');  
  
Insert into section values('MACI53',2,'summer',2009,'Primorsk',444,'A');  
  
Insert into section values('CDM327',2,'spring',2010,'Mylta',732,'B');  
  
Insert into section values('MACM26',1,'winter',2009,'Primorsk',444,'A');  
  
Insert into section values('HP5626',1,'autumn',2009,'Novorepnoye',129,'C');  
  
Insert into section values('HE5789',2,'summer',2010,'Novorepnoye',129,'B');  
  
Insert into section values('CCK205',1,'spring',2009,'Severny',521,'B');  
  
Insert into section values('PHYW55',2,'spring',2010,'Georgopol',866,'A');  
  
Insert into section values('PHYT01',1,'autumn',2009,'Georgopol',866,'A');  
  
Insert into section values('PHYE61',1,'winter',2009,'Georgopol',866,'A');  
  
Insert into section values('PHYE22',2,'autumn',2010,'Georgopol',866,'C');  
  
Insert into section values('CAOC10',2,'winter',2010,'Severny',521,'A');
```

8:04 PM >_

```
MariaDB [university]> select * from section;
+-----+-----+-----+-----+-----+-----+-----+
| course_id | sec_id | semester | year | building | room_no | times_slot_id |
+-----+-----+-----+-----+-----+-----+-----+
| CSAI02 | 2 | summer | 2009 | Pochinki | 604 | A
| CSDS37 | 1 | winter | 2009 | Pochinki | 604 | C
| CSMF56 | 2 | autumn | 2009 | Pochinki | 604 | A
| CSSTA2 | 2 | autumn | 2010 | Pochinki | 604 | A
| CDF022 | 1 | summer | 2009 | Mylta | 732 | A
| CDM327 | 2 | spring | 2010 | Mylta | 732 | B
| MACI53 | 2 | summer | 2009 | Primorsk | 444 | A
| MACM26 | 1 | winter | 2009 | Primorsk | 444 | A
| HP5626 | 1 | autumn | 2009 | Novorepnoye | 129 | C
| HE5789 | 2 | summer | 2010 | Novorepnoye | 129 | B
| PHYT01 | 1 | autumn | 2009 | Georgopol | 866 | A
| PHYE22 | 2 | autumn | 2010 | Georgopol | 866 | C
| PHYW55 | 2 | spring | 2010 | Georgopol | 866 | A
| PHYE61 | 1 | winter | 2009 | Georgopol | 866 | A
| CCK205 | 1 | spring | 2009 | Severny | 521 | B
| CAOC10 | 2 | winter | 2010 | Severny | 521 | A
+-----+-----+-----+-----+-----+-----+
16 rows in set (0.001 sec)
```

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Create table department(dept_name varchar (40) primary key,building varchar (20),budget int);
Insert into department values('Computer Science','Pochinki',120000);
Insert into department values('Commerce','Mylta',80000);
Insert into department values('Chemistry','Severny',50000);
Insert into department values('Media& Communication','Primorsk',72000);
Insert into department values('Physics','Georgopol',70000);
Insert into department values('History','Novorepnoye',50000);

```
MariaDB [university]> select * from department;
+-----+-----+-----+
| dept_name          | building      | budget |
+-----+-----+-----+
| Chemistry           | Severny       | 50000  |
| Commerce            | Mylta         | 80000  |
| Computer Science    | Pochinki     | 120000 |
| History              | Novorepnoye  | 50000  |
| Media& Communication | Primorsk     | 72000  |
| Physics              | Georgopol    | 70000  |
+-----+-----+-----+
6 rows in set (0.001 sec)
```

```
MariaDB [university]> █
```

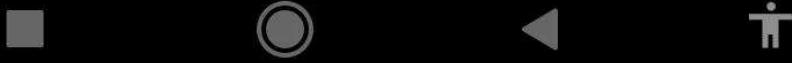


```
Create table classroom(building varchar (20) primary key,room_no int,capacity int);
Insert into classroom values('Pochinki',604,200);
Insert into classroom values('Primorsk',444,50);
Insert into classroom values('Mylta',732,100);
Insert into classroom values('Severny',521,130);
Insert into classroom values('Novorepnoye',129,70);
Insert into classroom values('Georgopol',866,150);
```

```
MariaDB [university]> select * from classroom;
+-----+-----+-----+
| building | room_no | capacity |
+-----+-----+-----+
| Georgopol | 866 | 150 |
| Mylta | 732 | 100 |
| Novorepnoye | 129 | 70 |
| Pochinki | 604 | 200 |
| Primorsk | 444 | 50 |
| Severny | 521 | 130 |
+-----+-----+-----+
6 rows in set (0.001 sec)
```

```
MariaDB [university]> █
```

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```
Create table time_slot(time_slot_id varchar(2),day varchar(10),start_time time,end_time time);

Insert into time_slot values('A','Monday','9:30','4:30');

Insert into time_slot values('A','Tuesday','9:30','4:30');

Insert into time_slot values('A','Wednesday','9:30','4:30');

Insert into time_slot values('A','Thursday','9:30','4:30');

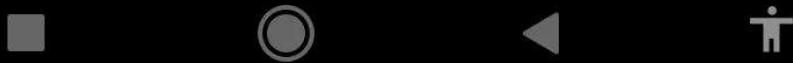
Insert into time_slot values('B','Friday','10:00','4:30');

Insert into time_slot values('C','Saturday','10:00','1:30');
```

```
MariaDB [university]> select * from time_slot;
+-----+-----+-----+-----+
| time_slot_id | day      | start_time | end_time |
+-----+-----+-----+-----+
| A            | Wednesday | 09:30:00   | 04:30:00 |
| C            | Saturday  | 10:00:00   | 01:30:00 |
| A            | Thursday  | 09:30:00   | 04:30:00 |
| B            | Friday    | 10:00:00   | 04:30:00 |
+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

```
MariaDB [university]>
```

ESC ↵ CTRL ALT - ↓ ↑



```
Create table takes(ID varchar(10),course_id varchar(20),sec_id varchar(2),semester  
varchar(20),year int,grade varchar(2));
```

```
Insert into takes values('CS952','CSDS37',1,'winter',2009,'A');
```

```
Insert into takes values('CS518','CSMF56',2,'autumn',2009,'D');
```

```
Insert into takes values('CS501','CSAI02',2,'summer',2009,'A+');
```

```
Insert into takes values('PH926','PHYE22',2,'autumn',2010,'C');
```

```
Insert into takes values('PH995','PHYE61',1,'winter',2009,'B');
```

```
Insert into takes values('CO985','CDF022',1,'summer',2009,'C');
```

```
Insert into takes values('CS911','CSSTA2',2,'autumn',2010,'B');
```

```
Insert into takes values('CO880','CDF022',1,'summer',2009,'A');
```

```
Insert into takes values('PH690','PHYT01',1,'autumn',2009,'A+');
Insert into takes values('PH549','PHYW55',2,'spring',2010,'D');
Insert into takes values('PH112','PHYE22',2,'autumn',2010,'A+');
Insert into takes values('CH359','CCK205',1,'spring',2009,'B');
Insert into takes values('CH570','CCK205',1,'spring',2009,'D');
Insert into takes values('CH193','CAOC10',2,'winter',2010,'C');
Insert into takes values('CO884','CDM327',2,'spring',2010,'A');
Insert into takes values('CH218','CAOC10',2,'winter',2010,'B');
Insert into takes values('ME762','MACI53',2,'summer',2009,'A');
Insert into takes values('ME561','MACM26',1,'winter',2009,'A+');
Insert into takes values('HI396','HE5789',2,'summer',2010,'A+');
Insert into takes values('HI300','HP5626',1,'autumn',2009,'C');
Insert into takes values('CO884','CDF022',1,'summer',2009,'A');
Insert into takes values('CS952','CSMF56',2,'autumn',2009,'A');
Insert into takes values('PH690','PHYE22',2,'autumn',2010,'A+');
Insert into takes values('ME561','MACI53',2,'summer',2009,'A');

Select * from takes order by ID;
```

```
MariaDB [university]> select * from takes;
+-----+-----+-----+-----+-----+
| ID   | course_id | sec_id | semester | year | grade |
+-----+-----+-----+-----+-----+
| CS501 | CSAI02    | 2      | summer   | 2009 | A+   |
| CS952 | CSDS37    | 1      | winter   | 2009 | A    |
| CS518 | CSMF56    | 2      | autumn   | 2009 | D    |
| CS911 | CSSTA2    | 2      | autumn   | 2010 | B    |
| PH690 | PHYT01    | 1      | autumn   | 2009 | A+   |
| PH926 | PHYE22    | 2      | autumn   | 2010 | C    |
| PH112 | PHYE22    | 2      | autumn   | 2010 | A+   |
| PH549 | PHYW55    | 2      | spring   | 2010 | D    |
| PH995 | PHYE61    | 1      | winter   | 2009 | B    |
| CO880 | CDF022   | 1      | summer   | 2009 | A    |
| CO985 | CDF022   | 1      | summer   | 2009 | C    |
| CO884 | CDM327   | 2      | spring   | 2010 | A    |
| CH359 | CCK205   | 1      | spring   | 2009 | B    |
| CH570 | CCK205   | 1      | spring   | 2009 | D    |
| CH193 | CAOC10   | 2      | winter   | 2010 | C    |
| CH218 | CAOC10   | 2      | winter   | 2010 | B    |
| ME762 | MACI53   | 2      | summer   | 2009 | A    |
| ME561 | MACM26   | 1      | winter   | 2009 | A+   |
| HI300 | HP5626   | 1      | autumn   | 2009 | C    |
| HI396 | HE5789   | 2      | summer   | 2010 | A+   |
| CS952 | CSMF56   | 2      | autumn   | 2009 | A    |
| PH690 | PHYE22   | 2      | autumn   | 2010 | A+   |
| CO884 | CDF022   | 1      | summer   | 2009 | A    |
| ME561 | MACI53   | 2      | summer   | 2009 | A    |
+-----+-----+-----+-----+-----+
```

24 rows in set (0.001 sec)

```
MariaDB [university]>
```

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```
Create table pre_req(course_id varchar(10),prereq_id varchar(10));  
Insert into pre_req values('CSA102','CSDS37');  
Insert into pre_req values('PHYE61','PHYT01');  
Insert into pre_req values('CSSTA2','CSMF56');  
Insert into pre_req values('MACM26','MACI53');  
Insert into pre_req values('CSDS37','CSMF56');  
Insert into pre_req values('PHYW55','PHYE22');
```

```
MariaDB [university]> select * from pre_req;  
+-----+-----+  
| course_id | prereq_id |  
+-----+-----+  
| CSA102    | CSDS37   |  
| CSDS37    | CSMF56   |  
| CSSTA2    | CSMF56   |  
| MACM26    | MACI53   |  
| PHYE61    | PHYT01   |  
| PHYW55    | PHYE22   |  
+-----+-----+  
6 rows in set (0.001 sec)  
  
MariaDB [university]> █  
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```

```
Create table course(course_id varchar(10),title varchar(40),dept_name varchar(40),credits int);
```

Insert into course values('CSAIO2','Artificial Intelligence','Computer Science',3);
Insert into course values('CSSTA2','Statistics for C.S','Computer Science',3);
Insert into course values('CSMF56','Mathematics for C.S','Computer Science',4);
Insert into course values('CSDS37','Data Structures and Algorithms','Computer Science',5);
Insert into course values('CDF022','Finance','Commerce',5);
Insert into course values('MACM26','Media Management','Media&Communication',5);
Insert into course values('CDM327','Marketing','Commerce',5);
Insert into course values('MACI53','Introduction to Journalism','Media&Communication',4);
Insert into course values('HE5789','Economics','History',4);
Insert into course values('PHYT01','Thermodynamics','Physics',3);
Insert into course values('HP5626','Political Science','History',3);
Insert into course values('PHYW55','Wave Phenomena','Physics',4);
Insert into course values('PHYE22','Electro-Magnetism','Physics',3);
Insert into course values('CCK205','Chemical Kinetics','Chemistry',5);
Insert into course values('PHYE61','Energy Science','Physics',5);
Insert into course values('CAOC10','Chemical Kinetics','Chemistry',5);

8:02 PM >_

```
MariaDB [university]> select * from course;
+-----+-----+-----+-----+
| course_id | title | dept_name | credits |
+-----+-----+-----+-----+
| CSAI02 | Artificial Intelligence | Computer Science | 3 |
| CSDS37 | Data Structures and Algorithms | Computer Science | 5 |
| CSMF56 | Mathematics for C.S | Computer Science | 4 |
| CSSTA2 | Statistics for C.S | Computer Science | 3 |
| CDF022 | Finance | Commerce | 5 |
| CDM327 | Marketing | Commerce | 5 |
| MAC153 | Introduction to Journalism | Media&Communication | 4 |
| MACM26 | Media Management | Media&Communication | 5 |
| HP5626 | Political Science | History | 3 |
| HE5789 | Economics | History | 4 |
| PHYT01 | Thermodynamics | Physics | 3 |
| PHYE22 | Electro-Magnetism | Physics | 3 |
| PHYW55 | Wave Phenomena | Physics | 4 |
| PHYE61 | Energy Science | Physics | 5 |
| CCK205 | Chemical Kinetics | Chemistry | 5 |
| CAOC10 | Chemical Kinetics | Chemistry | 5 |
+-----+-----+-----+-----+
16 rows in set (0.001 sec)
```

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```
Create table advisor(s_id varchar(10),i_id int);

Insert into advisor values('PH690',6092);

Insert into advisor values('CS501',4694);

Insert into advisor values('CS911',4694);

Insert into advisor values('CS518',4694);

Insert into advisor values('CS952',4694);

Insert into advisor values('PH926',6092);

Insert into advisor values('PH995',6092);

Insert into advisor values('PH549',6092);

Insert into advisor values('CO880',7059);

Insert into advisor values('PH112',6092);

Insert into advisor values('CO985',7059);

Insert into advisor values('CO884',7059);

Insert into advisor values('CH359',2689);
```

Insert into advisor values('CH570',2689);

Insert into advisor values('CH193',2689);

Insert into advisor values('ME762',2781);

Insert into advisor values('ME561',2781);

Insert into advisor values('CH218',2689);

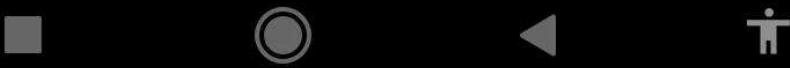
Insert into advisor values('HI396',7208);

Insert into advisor values('HI300',7208);

```
MariaDB [university]> select * from advisor;
+-----+-----+
| s_id | i_id |
+-----+-----+
| CS501 | 4694 |
| CS952 | 4694 |
| CS518 | 4694 |
| CS911 | 4694 |
| PH690 | 6092 |
| PH926 | 6092 |
| PH112 | 6092 |
| PH549 | 6092 |
| PH995 | 6092 |
| CO880 | 7059 |
| CO985 | 7059 |
| CO884 | 7059 |
| CH359 | 2689 |
| CH570 | 2689 |
| CH193 | 2689 |
| CH218 | 2689 |
| ME762 | 2781 |
| ME561 | 2781 |
| HI300 | 7208 |
| HI396 | 7208 |
+-----+-----+
20 rows in set (0.000 sec)
```

```
MariaDB [university]> █
```

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```
Create table teaches(ID int,course_id varchar(10),sec_id varchar(2),semester varchar(10),year int);

Insert into teaches values(6729,'CSAI02',2,'summer',2009);

Insert into teaches values(7208,'HP5626',1,'autumn',2009);

Insert into teaches values(5719,'CSDS37',1,'winter',2009);

Insert into teaches values(6911,'CDF022',1,'summer',2009);

Insert into teaches values(4694,'CSMF56',2,'autumn',2009);

Insert into teaches values(2781,'MACI53',2,'summer',2009);

Insert into teaches values(2689,'CCK205',1,'spring',2009);

Insert into teaches values(6092,'PHYE22',2,'autumn',2010);

Insert into teaches values(2103,'PHYT01',1,'autumn',2009);

Insert into teaches values(6092,'PHYW55',2,'spring',2010);

Insert into teaches values(7083,'CSSTA2',2,'autumn',2010);

Insert into teaches values(4256,'CAOC10',2,'winter',2010);

Insert into teaches values(7059,'CDM327',2,'spring',2010);

Insert into teaches values(7027,'PHYE61',1,'winter',2009);

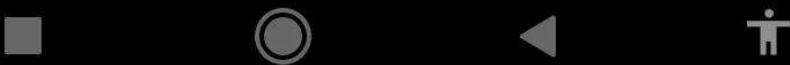
Insert into teaches values(1015,'HE5789',2,'summer',2010);

Insert into teaches values(1494,'MACM26',1,'winter',2009);
```

```
MariaDB [university]> select * from teaches;
+-----+-----+-----+-----+-----+
| ID   | course_id | sec_id | semester | year |
+-----+-----+-----+-----+-----+
| 6729 | CSAI02    | 2      | summer   | 2009 |
| 5719 | CSDS37    | 1      | winter   | 2009 |
| 6911 | CDF022    | 1      | summer   | 2009 |
| 4694 | CSMF56    | 2      | autumn   | 2009 |
| 7208 | HP5626    | 1      | autumn   | 2009 |
| 2781 | MACI53    | 2      | summer   | 2009 |
| 7083 | CSSTA2    | 2      | autumn   | 2010 |
| 2103 | PHYT01    | 1      | autumn   | 2009 |
| 6092 | PHYE22    | 2      | autumn   | 2010 |
| 6092 | PHYW55    | 2      | spring   | 2010 |
| 2689 | CCK205    | 1      | spring   | 2009 |
| 7059 | CDM327    | 2      | spring   | 2010 |
| 1015 | HE5789    | 2      | summer   | 2010 |
| 7027 | PHYE61    | 1      | winter   | 2009 |
| 4256 | CAOC10    | 2      | winter   | 2010 |
| 1494 | MACM26    | 1      | winter   | 2009 |
+-----+-----+-----+-----+-----+
16 rows in set (0.001 sec)
```

```
MariaDB [university]> █
```

ESC ↵ CTRL ALT - ↓ ↑



1. Find the titles of courses in the computer science department that have 3 credits

Select title from course where dept_name="Computer Science" and credits=3;

```
MariaDB [university]> select title from course where dept_name="Computer Science" and credits=3;
+-----+
| title |
+-----+
| Artificial Intelligence |
| Statistics for C.S      |
+-----+
2 rows in set (0.001 sec)

MariaDB [university]> █
```

ESC ⌘ CTRL ALT - ↓ ↑

2. Find the ID's of all students who were taught by an instructor named 'Einstein'. Make Sure that there are no duplicates in the result.

Select distinct student.ID from(student join takes using(ID))join(instructor join teaches Using(ID))using(course_id,sec_id,semester,year)where instructor.name="Einstein";

```
MariaDB [university]> select distinct student.ID from(student join takes using(ID))join(instructor join teaches
  using(ID))using(course_id,sec_id,semester,year)where instructor.name="Einstein";
+----+
| ID  |
+----+
| PH926 |
| PH112 |
| PHS49 |
| PH690 |
+----+
4 rows in set (0.018 sec)

MariaDB [university]> █
```

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3. Find the highest salary of any instructor

Select max(salary)from instructor;

```
9:23 PM >_
MariaDB [university]> select max(salary)from instructor;
+-----+
| max(salary) |
+-----+
|      98000 |
+-----+
1 row in set (0.001 sec)

MariaDB [university]> █
```

4. Find the instructors earning the highest salary (there may be more than one with same salary)

Select ID,name,salary from instructor where salary=(select max(salary)from instructor);

```
10:55 PM >_ ❤️
MariaDB [university]> select ID,name,salary from instructor where salary=(select max(salary)from instructor);
+----+----+-----+
| ID | name   | salary |
+----+----+-----+
| 4694 | Raistar | 98000 |
| 6092 | Einstein | 98000 |
+----+----+-----+
2 rows in set (0.037 sec)
```

5. Find the enrollment of each section that was offered in autumn 2009

Select course_id, sec_id,count(ID)from section natural join takes where semester="autumn"and year =2009 group by course_id,sec_id;

```
MariaDB [university]> select course_id, sec_id,count(ID)from section natural join takes where semester="autumn"
and year =2009 group by course_id,sec_id;
+----+----+-----+
| course_id | sec_id | count(ID) |
+----+----+-----+
| CSMF56   | 2     |      2 |
| HP5626   | 1     |      1 |
| PHYT01   | 1     |      1 |
+----+----+-----+
3 rows in set (0.002 sec)

MariaDB [university]> █
```

6. Find the maximum enrollment across all section in autumn 2009.

```
Create view section_enroll(course_id,sec_id,enrollment) as select course_id,sec_id,count(*) from takes where semester="autumn" and year=2009 group by course_id,sec_id;
```

```
Select max(enrollment)as max_enroll from section_enroll;
```

```
MariaDB [university]> create view section_enroll(course_id,sec_id,enrollment) as select course_id,sec_id,count(*) from takes where semester="autumn" and year=2009 group by course_id,sec_id;
Query OK, 0 rows affected (0.004 sec)

MariaDB [university]> select max(enrollment)as max_enroll from section_enroll;
+-----+
| max_enroll |
+-----+
|      2      |
+-----+
1 row in set (0.003 sec)

MariaDB [university]>
```

ESC  CTRL ALT - ↓ ↑

7. Find the sections that had the maximum enrollment in autumn 2009

```
Create view sec_max_enroll(course_id,sec_id,enrollment)as select course_id,sec_id,count(*) from takes where semester="autumn" and year='2009' group by course_id,sec_id;
```

```
Select course_id,sec_id from sec_max_enroll where enrollment=(select max(enrollment)from sec_max_enroll);
```

```
MariaDB [university]> create view sec_max_enroll(course_id,sec_id,enrollment)as select course_id,sec_id,count(*) from takes where semester="autumn" and year='2009' group by course_id,sec_id;
Query OK, 0 rows affected (0.041 sec)

MariaDB [university]> select course_id,sec_id from sec_max_enroll where enrollment=(select max(enrollment)from sec_max_enroll);
+-----+-----+
| course_id | sec_id |
+-----+-----+
| CSMF56   | 2      |
+-----+-----+
1 row in set (0.036 sec)

MariaDB [university]>
```

ESC  CTRL ALT - ↓ ↑