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inst\_name | varchar(20) | NO | NULL | | dept\_name | varchar(20) | YES | MUL | NULL | | salary | int(11) | YES | NULL | | 4 rows in set (0.268 sec)

#### Inserting data

insert into instructor values('10101', 'Srinivasan', 'Comp\_Sci', 65000); insert into instructor values('12121', 'Wu', 'Finance', 90000); insert into instructor values('22222', 'Einstain', 'Physics', 950000); insert into instructor values('32343', 'EI Said', 'History', 60000); insert into instructor values('45565', 'Katz', 'Comp\_Sci', 75000); insert into instructor values('98345', 'Kim', 'Elec\_Engg', 80000); insert into instructor values('76766', 'Crick', 'Biology', 72000); insert into instructor values('15151', 'Mozart', 'Music', 80000);

MariaDB [university]> create table section( course\_id varchar(15), sec\_id varchar(8), semester varchar(6), year int, building varchar(15), primary key(course\_id, sec\_id, semester, year), foreign key (course\_id) references course(course\_id));
Query OK, 0 rows affected (0.587 sec)

MariaDB [university]> describe section;

#### Inserting data

insert into section values('BIO-101', '1', 'Summer', 2009, 'Painter'); insert into section values('BIO-301', '1', 'Summer', 2010, 'Painter'); insert into section values('CS-101', '1', 'Fall', 2009, 'Packard'); insert into section values('CS-101', '1', 'Spring', 2010, 'Packard'); insert into section values('CS-190', '1', 'Spring', 2009, 'Taylor'); insert into section values('CS-190', '2', 'Spring', 2009, 'Taylor'); insert into section values('EE-181', '1', 'Spring', 2009, 'Taylor'); insert into section values('MU-199', '1', 'Spring', 2010, 'Packard');

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insert into section values('PHY-101', '1', 'Fall', 2009, 'Watson'); insert into section values ('HIS-351', '1', 'Spring', 2010, 'Painter');

Student House 1334 F. Ch. MariaDB [university]> create table teaches (inst\_id\_course\_id\_sec\_id\_semester\_vear) foreign teachar(8), MariaDB [university]> create table teaches (ms\_id, course\_id, sec\_id, semester, year), foreign key(inst\_id) semester varchar(6), year int, primary key (inst\_id, course\_id, sec\_id, semester, year), foreign key(inst\_id) references instructor(inst\_id)); Query OK, 0 rows affected (0.460 sec)

MariaDB [university]> describe teaches;

+-----+----+----+ | Field | Type | Null | Key | Default | Extra | inst\_id | varchar(5) | NO | PRI | NULL | | course id | int(11) | NO | PRI | NULL | sec id | varchar(8) | NO | PRI | NULL | | semester | varchar(6) | NO | PRI | NULL | year | int(11) | NO | PRI | NULL | | +-----+----+----

5 rows in set (0.208 sec)

#### Inserting data

insert into teaches values('10101','CS-101','1','Fall',2009); insert into teaches values('12121','FIN-201','1','Spring',2010); insert into teaches values('15151','MU-199','1','Spring',2010); insert into teaches values('22222','PHY-101','1', Fall', 2009); insert into teaches values('32343','HIS-351','1','Spring',2010); insert into teaches values('98345','EE-181','1','Spring',2009); insert into teaches values('76766','BIO-301','1','Summer',2010);

MariaDB [university]> create table student (stud\_id varchar(5), stu\_name varchar(10), dept\_name varchar(20), tot credit int, primary key (stud\_id), foreign key (dept\_name) references department(dept\_name)); Query OK, 0 rows affected (0.505 sec)

MariaDB [university]> describe student;

| Field | Type | Null | Key | Default | Extra | stud\_id | int(11) | NO | PRI | NULL | stu\_name | varchar(10) | YES | | NULL | dept\_name | varchar(20) | YES | MUL | NULL | tot\_credita | int(11) | YES | | NULL | |

4 rows in set (0.030 sec)

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#### ting data

ert into student values('12345','Shankar','Comp\_Sci',32); sert into student values('19991','Brandt','History',80); insert into student values('23121','Chavez','Finance',110); insert into student values('45678','Levy','Physics',46); insert into student values('55739', 'Sanchez', 'Music', 38); insert into student values('76653','Aoi','Elec Engg',60); insert into student values ('98988', 'Tanaka', 'Biology', 120);

MariaDB [university]> create table takes(stud\_id\_varchar(5), course\_id\_varchar(15), sec\_id\_varchar(8), semester varchar(6), year int, grade int, primary key(stud\_id, course\_id, sec\_id, semester, year), foreign key (stud id) references student(stud id), foreign key (course id, sec id, semester, year) references section(course id, sec id, semester, year)); Query OK, 0 rows affected (1.063 sec)

#### MariaDB [university]> describe takes;

| Field | Type | Null | Key | Default | Extra | stud\_id | int(11) | NO | PRI | NULL | | course\_id | int(11) | NO | PRI | NULL | sec\_id | varchar(8) | NO | PRI | NULL | | semester | varchar(6) | NO | PRI | NULL | year | int(11) | NO | PRI | NULL | | grade | int(11) | YES | NULL | | 6 rows in set (0.030 sec)

#### Alter Command

#### 1. adding the column:

mysql> create table student\_test(rollno int,name varchar(15)); Query OK, 0 rows affected (0.08 sec)

mysql> alter tablestudent\_test add address varchar(20); Query OK, 0 rows affected (0.14 sec)

#### 2. deleting the column:

mysql> alter table student\_test drop address; Query OK, 0 rows affected (0.14 sec)

#### 3. changing datatype/width of the fields:

mysql> alter table student\_test modify address varchar(25); Query OK, 0 rows affected (0.15 sec)

mysql> alter tablestudent\_test change address address varchar(25);

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Query OK, 0 rows affected (0.15 sec)

### 4. renaming column/table name

mysql> alter table student\_test rename rollno to roll\_no; Query OK, 0 rows affected (0.15 sec)

mysql> alter table student rename column rollno to roll\_no; Query OK, 0 rows affected (0.15 sec)

mysql> alter table student\_test rename to student\_data; Query OK, 0 rows affected (0.15 sec)

#### 5. adding/dropping primary key:

mysql> alter table student\_test add primary key(rollno); Query OK, 0 rows affected (0.14 sec)

mysql> alter table student\_test drop primary key; Query OK, 0 rows affected (0.15 sec)

#### 6. adding foreign key:

mysql> create table dept\_test(dept\_no int,dept\_name varchar(15),primary key(dept\_name)); Query OK, 0 rows affected (0.05 sec)

mysql> alter table student\_test add dept\_name varchar(15); Query OK, 0 rows affected (0.14 sec)

mysql> alter table student\_test add foreign key(dept\_name) references dept\_test(dept\_name); Query OK, 0 rows affected (0.15 sec)

#### Truncate and drop commands

SQL> create table test(id number,name char(15));

Table created.

SQL> describe test;

Name Null?

Type

ID NAME

NUMBER

CHAR(15)

SQL> insert into test values(20,' Ashwini '); I row created.

SQL> select \* from test;

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