

Commands:

CREATE TABLE Student

```
(  
stud_id varchar(9) not null,  
stud_name varchar(20) not null,  
stud_phone int(13) not null,  
stud_date_of_birth date not null,  
stud_city varchar(20) not null,  
stud_address varchar(40) not null,  
stud_postcode int(4) not null,  
PRIMARY KEY(stud_id)  
);
```

CREATE TABLE Subject

```
(  
subj_code varchar(8) not null,  
subj_title varchar(40) not null,  
PRIMARY KEY(subj_code)  
);
```

//grade will not be taken at the start of year and thus can be null!

CREATE TABLE Grade

```
(  
stud_id varchar(9) not null,  
subj_code varchar(8) not null,  
semester int(1) not null,
```

year int(4) not null,

grade varchar(4),

PRIMARY KEY(stud\_id, subj\_code, semester, year),

FOREIGN KEY(stud\_id) REFERENCES Student(stud\_id),

FOREIGN KEY(subj\_code) REFERENCES Subject(subj\_code)

);

//comment can be null

CREATE TABLE Subj\_Enrolment

(

stud\_id varchar(9) not null,

subj\_code varchar(8) not null,

semester int(1) not null,

year int(4) not null,

comment varchar(20),

PRIMARY KEY(stud\_id, subj\_code, semester, year),

FOREIGN KEY(stud\_id) REFERENCES Student(stud\_id),

FOREIGN KEY(subj\_code) REFERENCES Subject(subj\_code)

);

Screenshots: (see next page)

```

MariaDB [(none)]> Create database University;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> Use University;
Database changed
MariaDB [University]> CREATE TABLE Student
-> (
-> stud_id varchar(9) not null,
-> stud_name varchar(20) not null,
-> stud_phone int(13) not null,
-> stud_date_of_birth date not null,
-> stud_city varchar(20) not null,
-> stud_address varchar(40) not null,
-> stud_postcode int(4) not null,
-> PRIMARY KEY(stud_id)
-> );
Query OK, 0 rows affected (0.050 sec)

MariaDB [University]>
MariaDB [University]> CREATE TABLE Subject
-> (
-> subj_code varchar(8) not null,
-> subj_title varchar(40) not null,
-> PRIMARY KEY(subj_code)
-> );
Query OK, 0 rows affected (0.045 sec)

MariaDB [University]> CREATE TABLE Grade
-> (
-> stud_id varchar(9) not null,
-> subj_code varchar(8) not null,
-> semester int(1) not null,
-> year int(4) not null,
-> grade varchar(4),
->
-> PRIMARY KEY(stud_id, subj_code, semester, year),
-> FOREIGN KEY(stud_id) REFERENCES Student(stud_id),
-> FOREIGN KEY(subj_code) REFERENCES Subject(subj_code)
-> );
Query OK, 0 rows affected (0.052 sec)

```

```

MariaDB [University]> CREATE TABLE Subj_Enrolment
-> (
-> stud_id varchar(9) not null,
-> subj_code varchar(8) not null,
-> semester int(1) not null,
-> year int(4) not null,
-> comment varchar(20),
->
-> PRIMARY KEY(stud_id, subj_code, semester, year),
-> FOREIGN KEY(stud_id) REFERENCES Student(stud_id),
-> FOREIGN KEY(subj_code) REFERENCES Subject(subj_code)
-> );
Query OK, 0 rows affected (0.048 sec)

```