Task P5.1.4

Create Student Table:

```
CREATE TABLE Student(

   -> stud_id MEDIUMINT(9) UNSIGNED NOT NULL,

   -> stud_name VARCHAR(30) NOT NULL,

   -> stud_phone MEDIUMINT(10) UNSIGNED NOT NULL,

   -> stud_date_of_birth DATE NOT NULL,

   -> stud_city VARCHAR(28) NOT NULL,

   -> stud_address TINYTEXT NOT NULL,

   -> stud_postcode SMALLINT(4) UNSIGNED NOT NULL,

   -> PRIMARY KEY (stud_id)

   -> );
```

```
+--------------------+-----------------------+------+-----+---------+-------+
| Field              | Type                  | Null | Key | Default | Extra |
+--------------------+-----------------------+------+-----+---------+-------+
| stud_id            | mediumint(9) unsigned | NO   | PRI | NULL    |       |
| stud_name          | varchar(30)           | NO   |     | NULL    |       |
| stud_phone         | mediumint(10) unsigned| NO   |     | NULL    |       |
| stud_date_of_birth | date                  | NO   |     | NULL    |       |
| stud_city          | varchar(28)           | NO   |     | NULL    |       |
| stud_address       | tinytext              | NO   |     | NULL    |       |
| stud_postcode      | smallint(4) unsigned  | NO   |     | NULL    |       |
+--------------------+-----------------------+------+-----+---------+-------+
```

Create Subject Table:

```
CREATE TABLE Subject(
    -> subj_code char(8) not null,
    -> subj_title varchar(30) not null,
    -> PRIMARY KEY (subj_code)
    -> );
```

```
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| subj_code  | char(8)     | NO   | PRI | NULL    |       |
| subj_title | varchar(30) | NO   |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
2 rows in set (0.029 sec)
```

Creating Student table:

```
CREATE TABLE Subj_Enrolment(

        stud_id mediumint(9) unsigned not null,

        subj_code char(8) not null,

        semester smallint(1) not null,

        year YEAR not null,

        comment tinytext,

        PRIMARY KEY (stud_id, subj_code, year, semester),

        FOREIGN KEY (stud_id) REFERENCES Student(stud_id),

        FOREIGN KEY (subj_code) REFERENCES Subject(subj_code)

        );
```

```
+-----------+----------------------+------+-----+---------+-------+
| Field     | Type                 | Null | Key | Default | Extra |
+-----------+----------------------+------+-----+---------+-------+
| stud_id   | mediumint(9) unsigned | NO  | PRI | NULL    |       |
| subj_code | char(8)              | NO   | PRI | NULL    |       |
| semester  | smallint(1)          | NO   | PRI | NULL    |       |
| year      | year(4)              | NO   | PRI | NULL    |       |
| comment   | tinytext             | YES  |     | NULL    |       |
+-----------+----------------------+------+-----+---------+-------+
5 rows in set (0.029 sec)
```

Create Grade Table:

CREATE TABLE Grade(

-> stud_id MEDIUMINT(9) UNSIGNED NOT NULL,

-> subj_code CHAR(8) NOT NULL,

-> semester SMALLINT(1),

-> year YEAR NOT NULL,

-> grade CHAR(2) NOT NULL,

-> PRIMARY KEY (stud_id, subj_code, year, semester),

-> FOREIGN KEY (stud_id) REFERENCES Student(stud_id),

-> FOREIGN KEY (subj_code) REFERENCES Subject(subj_code),

-> ADD FOREIGN KEY (semester, year) REFERENCES subj_enrolment (semester, year)

->);

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐ 1	stud_id 🔑	mediumint(9)		UNSIGNED	No	None			🖉 Change ⊖ Drop ▼ More
☐ 2	subj_code 🔑🔑	char(8)	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▼ More
☐ 3	semester 🔑	smallint(1)			No	None			🖉 Change ⊖ Drop ▼ More
☐ 4	year 🔑	year(4)			No	None			🖉 Change ⊖ Drop ▼ More
☐ 5	grade	enum('M', 'F')	utf8mb4_general_ci		No	None			🖉 Change ⊖ Drop ▼ More