

# SQL Statements

## I. Creating student Table

```
1 • CREATE DATABASE student_submissions_db;
2 • USE student_submissions_db;
3
4 • CREATE TABLE student (
5     username VARCHAR(50) NOT NULL,
6     PRIMARY KEY (username)
7 ) ENGINE=InnoDB;
8
```

## II. Creating assignment Table

```
1 • CREATE TABLE assignment (
2     shortname VARCHAR(50) NOT NULL,
3     due_date DATE NOT NULL,
4     url VARCHAR(255) NULL,
5     PRIMARY KEY (shortname)
6 ) ENGINE=InnoDB;
7
```

## III. Creating submission Table

```
1 • CREATE TABLE submission (
2     username VARCHAR(50) NOT NULL,
3     shortname VARCHAR(50) NOT NULL,
4     version INT NOT NULL,
5     submit_date DATE NOT NULL,
6     data TEXT NULL,
7     PRIMARY KEY (username, shortname, version),
8     CONSTRAINT FK_submission_student
9         FOREIGN KEY (username)
10            REFERENCES student (username)
11            ON DELETE RESTRICT
12            ON UPDATE CASCADE,
13     CONSTRAINT FK_submission_assignment
14         FOREIGN KEY (shortname)
15            REFERENCES assignment (shortname)
16            ON DELETE RESTRICT
17            ON UPDATE CASCADE
18 ) ENGINE=InnoDB;
19
```

# TABLE STRUCTURES

- student table:

	Field	Type	Null	Key	Default	Extra
▶	username	varchar(50)	NO	PRI	NULL	

- assignment table:

Field	Type	Null	Key	Default	Extra
shortname	varchar(50)	NO	PRI	NULL	
due_date	date	NO		NULL	
url	varchar(255)	YES		NULL	

- submission table:

Field	Type	Null	Key	Default	Extra
username	varchar(50)	NO	PRI	NULL	
shortname	varchar(50)	NO	PRI	NULL	
version	int(11)	NO	PRI	NULL	
submit_date	date	NO		NULL	
data	text	YES		NULL	