

#### a. Description

##### Student:

- id: varchar2(10)
- name: varchar2(20)
- surname: varchar(20)
- study\_year: number(1,0)
- department: number(2,0)
  
- primary key: id

##### Teacher:

- id: varchar2(10)
- name: varchar2(20)
- surname: varchar(20)
- salary: number(7,2)
- department: number(2,0)
  
- primary key: id

##### Course:

- id: varchar2(10)
- teacher\_id: varchar2(10)
- credits: number(2,0)
- + name: varchar2(30)
  
- primary key: id

##### Department:

- id: number(2,0)
- name: varchar2(20)
- faculty: varchar2(5)
  
- primary key: id

##### Student\_Course:

- student id: varchar2(10)
- course id: varchar2(10)
  
- primary key: student id, course id

+ DROP TABLE

## b. Commands & Tables

### DEPARTMENT

```
create table "DEPARTMENT" (  
  "ID"          number(2, 0),  
  "NAME"        varchar2(20),  
  "FACULTY"     varchar2(5),  
  
  constraint "DEPARTMENT_PK" primary key ("ID") using index enable  
)
```

### STUDENT

```
create table "STUDENT" (  
  "ID"          varchar2(10),  
  "NAME"        varchar2(20),  
  "SURNAME"     varchar2(20),  
  "STUDY_YEAR"  number(1, 0),  
  "DEPARTMENT"  number(2, 0),  
  
  constraint "STUDENT_PK" primary key ("ID") using index enable,  
  
  constraint "STUDY_YEAR_CK" check (1 <= STUDY_YEAR and STUDY_YEAR <= 7) enable  
)
```

### TEACHER

```
create table "TEACHER" (  
  "ID"          varchar2(10),  
  "NAME"        varchar2(20),  
  "SURNAME"     varchar2(20),  
  "BASE_SALARY" number(7, 2),  
  "DEPARTMENT"  number(2, 0),  
  
  constraint "TEACHER_PK" primary key ("ID") using index enable,  
  
  constraint "BASE_SALARY_CK" check (BASE_SALARY >= 0) enable  
)
```

### COURSE

```
create table "COURSE" (  
  "ID"          varchar2(10),  
  "TEACHER_ID"  varchar2(10),  
  "CREDITS"     number(2, 0),  
  
  constraint "COURSE_PK" primary key ("ID") using index enable  
)
```

### STUDENT\_COURSE

```
create table "STUDENT_COURSE" (  
  "STUDENT_ID"  varchar2(10),  
  "COURSE_ID"    varchar2(10),  
  
  constraint "STUDENT_COURSE_PK" primary key ("STUDENT_ID", "COURSE_ID") using index enable  
)
```

c. Alter Table

```
alter table "COURSE" add "NAME" varchar2(30)
```

d. Delete Table

```
drop table "STUDENT_COURSE"
```