

```

DROP TABLE COURSE_RULE;
DROP TABLE PREFERENCES;
DROP TABLE TIMES;
DROP TABLE ROOM;
DROP TABLE PTTEACHER;
DROP TABLE FULLTIME;
DROP TABLE PHONE;
DROP TABLE SECTION;
DROP TABLE WHITEBOARD;
DROP TABLE BUILDING;
DROP TABLE TIMESLOT;
DROP TABLE SEMESTER;
DROP TABLE FACULTY;
DROP TABLE ROADMAP;
DROP TABLE PREREQUISITES;
DROP TABLE MAJOR;
DROP TABLE COURSE;
/*-----DROP TABLES IN THIS ORDER-----*/

```

```

CREATE TABLE COURSE(
    ID                INT,
    CNAME              VARCHAR(45),
    CREDITS            INT,
    DESCRIPTION        VARCHAR(100),

    PRIMARY KEY (ID)
);

```

```

CREATE TABLE FACULTY(
    ID                INT NOT NULL AUTO_INCREMENT,
    FNAME              VARCHAR(45),
    LNAME              VARCHAR(45),
    ADDRESS            VARCHAR(45),
    CITY               VARCHAR(45),
    ZIP                VARCHAR(45),
    EMAIL              VARCHAR(45),
    SALARY             DECIMAL(10,2),

    PRIMARY KEY (ID)
);

```

```

CREATE TABLE SEMESTER(
    ID                INT,

```

```
        SEMESTER          VARCHAR(45),

        PRIMARY KEY (ID)
    );
```

```
CREATE TABLE TIMESLOT(
    ID                    INT,
    START_TIME           CHAR(10),
    END_TIME             CHAR(10),
    TDAY                 VARCHAR(45),

    PRIMARY KEY (ID)
);
```

```
CREATE TABLE BUILDING(
    ID                    INT,
    BNAME                 VARCHAR(45),
    DESCRIPTION           VARCHAR(45),
    PRIMARY KEY (ID)
);
```

```
CREATE TABLE MAJOR(
    ID                    INT,
    PROGRAM               VARCHAR(100),
    DEAN                  VARCHAR(45),
    PROGRAM_COORDINATOR  VARCHAR(45),

    PRIMARY KEY (ID)
);
```

```
CREATE TABLE WHITEBOARD(
    RULEID                INT,
    RULEDESCRIPTION       VARCHAR(150),

    PRIMARY KEY (RULEID)
);
```

```
/*ABOVE THIS COMMENT ARE TABLES WITHOUT FOREIGN KEYS
```

```
-----
    BELOW ARE TABLES THAT REQUIRE FOREIGN KEYS
```

```
*/
```

```

/*FOREIGN KEY (COURSE_ID, FACULTY_ID, SEMESTER_ID)-----
-----*/
CREATE TABLE SECTION(
    ID                INT,
    CAPACITY          INT,
    STYPE             VARCHAR(45),
    STARTDATE         DATE,
    ENDDATE           DATE,
    COURSE_ID         INT,
    FACULTY_ID        INT,
    SEMESTER_ID       INT,

    primary key(id),
    foreign key(COURSE_id) references COURSE(ID),
    foreign key(FACULTY_id) references FACULTY(ID),
    foreign key(SEMESTER_id) references SEMESTER(ID)
);
/*FOREIGN KEY (COURSE_ID, FACULTY_ID, SEMESTER_ID)-----
-----*/

```

```

/*FACULTY_ID IS THE FOREIGN KEY FOR THESE TABLES -----
-----*/
CREATE TABLE PHONE(
    PHONE             VARCHAR(15),
    PTYPE            VARCHAR(10),
    FACULTY_ID        INT,

    PRIMARY KEY (PHONE),
    FOREIGN KEY (FACULTY_ID) REFERENCES FACULTY(ID)
);

CREATE TABLE FULLTIME(
    FACULTY_ID        INT,
    CREDITS           INT,
    FTYPE            VARCHAR(45),
    OFFICE            VARCHAR(45),

    PRIMARY KEY(FACULTY_ID),
    FOREIGN KEY (FACULTY_ID) REFERENCES FACULTY(ID)
);

```

```

CREATE TABLE PTTEACHER(
    FACULTY_ID          INT,
    DEGREE              VARCHAR(45),
    MAJOR              VARCHAR(45),

    PRIMARY KEY (FACULTY_ID),
    FOREIGN KEY (FACULTY_ID) REFERENCES FACULTY(ID)
);

```

```

/* FACULTY_ID IS THE FOREIGN KEY FOR THESE TABLES -----
-----*/

```

```

/*FOREIGN KEY IS BUILDING_ID-----*/

```

```

CREATE TABLE ROOM(
    ID                  INT,
    CAPACITY            INT,
    RTYPE              VARCHAR(45),
    BUILDING_ID        INT,

    PRIMARY KEY(ID),
    FOREIGN KEY(BUILDING_ID) REFERENCES BUILDING (ID)
);

```

```

/*FOREIGN KEY IS BUILDING_ID-----*/

```

```

/* PRIMARY KEY AND FOREIGN KEY (SECTION_ID, ROOM_ID, TIMESLOT_ID) -----
-----*/

```

```

CREATE TABLE TIMES(
    SECTION_ID          INT,
    TIMESLOT_ID         INT,
    ROOM_ID             INT,

    PRIMARY KEY (SECTION_ID, TIMESLOT_ID, ROOM_ID),
    FOREIGN KEY (SECTION_ID) REFERENCES SECTION(ID),
    FOREIGN KEY (ROOM_ID) REFERENCES ROOM(ID),
    FOREIGN KEY (TIMESLOT_ID) REFERENCES TIMESLOT(ID)
);

```

```

/* PRIMARY KEY AND FOREIGN KEY (SECTION_ID, ROOM_ID, TIMESLOT_ID) -----
-----*/

```

```
/*FOREIGN KEYS (FACULTY_ID, COURSE_ID, TIMESLOT_ID, SEMESTER_ID) -----  
-----*/
```

```
CREATE TABLE PREFERENCES(
```

```
    ID                INT,  
    FACULTY_ID        INT,  
    COURSE_ID         INT,  
    TIMESLOT_ID       INT,  
    SEMESTER_ID       INT,
```

```
    PRIMARY KEY(ID),  
    FOREIGN KEY (FACULTY_ID) REFERENCES FACULTY(ID),  
    FOREIGN KEY (COURSE_ID) REFERENCES COURSE(ID),  
    FOREIGN KEY (TIMESLOT_ID) REFERENCES TIMESLOT(ID),  
    FOREIGN KEY (SEMESTER_ID) REFERENCES SEMESTER(ID)
```

```
);
```

```
/*FOREIGN KEYS (FACULTY_ID, COURSE_ID, TIMESLOT_ID, SEMESTER_ID)-----  
-----*/
```

```
/*PRIMARY AND FOREIGN KEYS (COURSE_ID, ROADMAP_ID)-----  
-----*/
```

```
CREATE TABLE ROADMAP(
```

```
    ID                INT,  
    COURSE_ID        INT,  
    SEMESTER         VARCHAR(45),
```

```
    PRIMARY KEY(COURSE_ID, ID),  
    FOREIGN KEY (COURSE_ID) REFERENCES COURSE(ID),  
    FOREIGN KEY (ID) REFERENCES MAJOR (ID)
```

```
);
```

```
/*PRIMARY AND FOREIGN KEYS (COURSE_ID, ROADMAP_ID)-----  
-----*/
```

```
/* PRIMARY AND FOREIGN KEYS (COURSE_START, COURSE_END)-----  
-----*/
```

```
CREATE TABLE PREREQUISITES(
```

```
    PREREQUISITES    VARCHAR(45),  
    COURSE_START     INT,
```

```

    COURSE_END          INT,

    PRIMARY KEY (COURSE_START, COURSE_END),
    FOREIGN KEY (COURSE_START) REFERENCES COURSE(ID),
    FOREIGN KEY (COURSE_END) REFERENCES COURSE(ID)
);
/* PRIMARY AND FOREIGN KEYS (COURSE_START, COURSE_END)-----
-----*/

/* PRIMARY AND FOREIGN KEYS (COURSE_ID, WHITEBOARD_ID)-----
-----*/
CREATE TABLE COURSE_RULE(
    COURSE_ID          INT,
    WHITEBOARD_ID      INT,

    PRIMARY KEY (COURSE_ID, WHITEBOARD_ID),
    FOREIGN KEY (COURSE_ID) REFERENCES COURSE(ID),
    FOREIGN KEY (WHITEBOARD_ID) REFERENCES WHITEBOARD(RULEID)
);
/* PRIMARY AND FOREIGN KEYS (COURSE_ID, WHITEBOARD_ID)-----
-----*/

```