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-- Use Database
USE BUDT702_Project_0501_01;

-- SQL DROP Statements
DROP TABLE IF EXISTS Ranks;
DROP TABLE IF EXISTS YearlyRankingFactors;
DROP TABLE IF EXISTS RankingWebsite;
DROP TABLE IF EXISTS Program;
DROP TABLE IF EXISTS AcademicDepartment;

-- SQL CREATE TABLE Statements
CREATE TABLE AcademicDepartment (
    depId CHAR(3) NOT NULL,
    depName VARCHAR(50),
    CONSTRAINT pk_AcademicDepartment PRIMARY KEY (depId)
);

CREATE TABLE RankingWebsite (
    webId CHAR(4) NOT NULL,
    webName VARCHAR(50),
    webLink VARCHAR(100),
    CONSTRAINT pk_RankingWebsite PRIMARY KEY (webId)
);

CREATE TABLE Program (
    prgId CHAR(4) NOT NULL,
    prgName VARCHAR(50),
    prgDuration DECIMAL(4,2),
    prgStartDate DATE,
    prgCredits DECIMAL(6,2),
    prgScholarship DECIMAL(10,2),
    depId CHAR(3) NOT NULL,
    CONSTRAINT pk_Program PRIMARY KEY (prgId),
    CONSTRAINT fk_Program_depId FOREIGN KEY (depId)
        REFERENCES AcademicDepartment(depId)
        ON DELETE NO ACTION ON UPDATE CASCADE
);

CREATE TABLE YearlyRankingFactors (
    facYear CHAR(4) NOT NULL,
    prgId CHAR(4) NOT NULL,
    facEmploymentRate DECIMAL(5,2),
    facStudentIntake INTEGER,
    facTuitionFees INTEGER,
    facAvgStartSalary INTEGER,
    facStudentToFacultyRatio INTEGER,
    CONSTRAINT pk_YearlyRankingFactors PRIMARY KEY (facYear, prgId),
    CONSTRAINT fk_YearlyRankingFactors_prgId
        FOREIGN KEY (prgId) REFERENCES Program(prgId)
        ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Ranks (
    facYear CHAR(4) NOT NULL,
    prgId CHAR(4) NOT NULL,
    webId CHAR(4) NOT NULL,

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rank INTEGER,  
CONSTRAINT pk_Ranks PRIMARY KEY (facYear, prgId, webId),  
CONSTRAINT fk_Ranks_prgId_facYear  
    FOREIGN KEY (facYear, prgId) REFERENCES YearlyRankingFactors(facYear, prgId)  
    ON DELETE CASCADE ON UPDATE CASCADE,  
CONSTRAINT fk_Ranks_webId  
    FOREIGN KEY (webId) REFERENCES RankingWebsite(webId)  
    ON DELETE CASCADE ON UPDATE CASCADE  
);
```