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create database db3;
use db3;
CREATE TABLE University
(
  universityID int primary key not null auto_increment,
  universityName varchar(100)
);

CREATE TABLE Faculties
(
  facultyID int primary key not null auto_increment,
  facultyName varchar(100),
  universityID int,
  foreign key (universityID) references University (universityID)
);

CREATE TABLE Teachers
(
  teacherID int primary key not null auto_increment,
  teacherFirstName varchar(20),
  teacherLastName varchar(20),
  facultyID int,
  foreign key(facultyID) references Faculties (facultyID)
);

CREATE TABLE GroupsSt
(
  groupID int primary key not null auto_increment,
  groupNumber int
);

create table Students
(
  studentID int primary key not null auto_increment,
  studentFirstName varchar(20),
  studentLastName varchar(20),
  groupID int,
  foreign key(groupID) references GroupsSt (groupID)
);
CREATE TABLE TeacherGroup
(
  ID int primary key not null auto_increment,
  teacherID int,
  foreign key(teacherID) references Teachers (teacherID),
  groupID int,
  foreign key(groupID) references GroupsSt (groupID)
);

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SELECT * FROM University;
SELECT studentFirstName, studentLastName FROM Students;
SELECT teacherFirstName, teacherLastName FROM Teachers WHERE teacherFirstName
= 'Иван';
SELECT groupNumber FROM GroupsSt WHERE groupNumber > 300;
SELECT universityName FROM University WHERE universityName LIKE "%a%";
SELECT COUNT(universityName) FROM University WHERE universityName LIKE "H%";
SELECT COUNT(studentFirstName) FROM Students WHERE groupID=1;
SELECT Min(groupNumber) FROM GroupsSt;
SELECT Max(groupNumber) FROM GroupsSt;
SELECT Max(facultyName) FROM Faculties;
SELECT AVG(groupNumber) FROM GroupsSt;
SELECT SUM(groupNumber) FROM GroupsSt;
SELECT COUNT(studentFirstName) FROM Students WHERE groupID=1;
SELECT MIN(studentAge) From Students WHERE groupID=5;
SELECT COUNT(studentAge) FROM Students group by studentAge HAVING studentAge >
20;
SELECT * FROM Students ORDER BY studentAge DESC LIMIT 5;
SELECT teacherLastName FROM Teachers ORDER BY teacherFirstName;
SELECT * FROM Faculties JOIN University ON Faculties.universityID =
University.universityID WHERE University.universityName LIKE "H%";
SELECT * FROM Faculties LEFT JOIN University ON Faculties.universityID =
University.universityID;
SELECT facultyName FROM Faculties right JOIN Teachers on Faculties.facultyID =
Teachers.facultyID;
SELECT * FROM Faculties right JOIN Teachers on Faculties.facultyID = Teachers.facultyID
ORDER BY facultyName;

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