



SQL

Course catalog

SQL

Course Offerings

SQL

```
1 CREATE TABLE students (  
2     id SERIAL PRIMARY KEY,  
3     name VARCHAR(100) NOT NULL,  
4     email VARCHAR(100) UNIQUE NOT NULL,  
5     gpa DECIMAL(3, 2) DEFAULT 0.0  
6 );
```



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```
1 CREATE TABLE courses (  
2     id SERIAL PRIMARY KEY,  
3     title VARCHAR(150) NOT NULL,  
4     instructor VARCHAR(100) NOT NULL,  
5     credits INTEGER DEFAULT 3,  
6     capacity INTEGER NOT NULL  
7 );
```



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Student Course Registrat

```
1 ✓ CREATE TABLE registrations (  
2     id SERIAL PRIMARY KEY,  
3     student_id INTEGER REFERENCES students(id) ON DELETE CASCADE,  
4     course_id INTEGER REFERENCES courses(id) ON DELETE CASCADE,  
5     registration_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
6     CONSTRAINT unique_registration UNIQUE (student_id, course_id)  
7 );
```

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Students

```
1 INSERT INTO students (name, email, gpa) VALUES
2 ('Alibi Bekov', 'alibi@mail.kz', 3.8),
3 ('Aigerim S.', 'aigera@mail.kz', 3.5);
```



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Student Course Registra

```
1 INSERT INTO courses (title, instructor, credits, capacity) VALUES
2 ('Object-Oriented Programming', 'Traxel Xeniya', 5, 30),
3 ('Database Systems', 'Zhandaulet Eldos', 4, 25);
```