

# Databases

## Lecture 2: SQL - Structured Query Language

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# 1. SQL: Structured Query Language

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# 1.1 What is SQL?

- Standard language for managing relational databases
- Used for querying, updating, and managing data

## 1. SQL: Structured Query Language


### 1.2 Basic SQL Commands

- SELECT: Retrieve data
- INSERT: Add new records
- UPDATE: Modify existing records
- DELETE: Remove records

## 1.3 SQL Example: SELECT Statement

### 1. SQL: Structured Query Language

```
1 SELECT Name, Major
2 FROM Students
3 WHERE GPA > 3.5;
```

 SQL

## 1.4 SQL Example: INSERT Statement

```
1 INSERT INTO Students (Student_ID, Name, Major, GPA)
2 VALUES (104, 'David', 'Biology', 3.7);
```

