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What is SQL?



- **Structured Query Language**
 - **Select * from employees where id = 5**
- **Queries and alters relational databases**
 - **Queries => Select * from employees**
 - **Alters => Delete from employees**
- **Relational Database Management Systems (RDBMS)s**
 - **MySQL, SQL Server, Oracle, MS Access**

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Most used SQL commands?



- **INSERT, UPDATE, DELETE, and SELECT**
 - **INSERT** => Enters data
 - **UPDATE** => Updates data
 - **DELETE** => Deletes data
 - **SELECT** => Queries data
- **CREATE, ALTER, ADD and DROP**
 - **CREATE** => Creates databases, tables, etc.
 - **ALTER** => Alters databases, tables, etc.
 - **ADD** => Adds a field or constraint.
 - **DROP** => Removes databases, tables, constraints, etc.

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Example Time!



Our example's objectives

- To keep track of CS75 staff's CD collection
 - Record each staff member's first and last name
 - Record each CD's artist and title
 - Record what CDs every staff member has and when each CD was acquired

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Recommended things to research?



- **MySQL data types**
- **Primary key and foreign key constraints**
- **Normalization**
- **SQL commands: SELECT, INSERT, UPDATE, and DELETE**

For any questions
<http://cs75.net/discuss>