

SQL

Introduction to Informatics

Today

- What is SQL?
- SQL as DML and DDL
- Basic SQL Queries
- Practice

What is SQL?

- SQL = ?
- Structured Query Language
- SQL allows you to access databases

SQL can be...

- a Data Definition Language (DDL)
- a Data Manipulation Language (DML)

As a DDL, SQL can...

- Create tables
- Alter tables
- Drop tables

As a DML, SQL can...

- Insert Record(s) - INSERT INTO
- Delete Record(s) - DELETE
- Update Record(s) - UPDATE
- Retrieve/Select Record(s) - SELECT

CREATE

- Creating Databases
- Creating Tables
- Query Structure
- Constraints (PK, FK)

INSERT INTO

- Inserting Values into a table

SELECT

- Structure
- SELECT
- SELECT *
- SELECT DISTINCT
- Using WHERE

UPDATE

- Updating records

DELETE

- Delete Specific Rows
- Delete All Rows

DROP

- Dropping databases
- Dropping tables

TRUNCATE

- Truncate vs. Drop