



SQL

Introduction

- “S.Q.L.” or “sequel”
- Supported by all major commercial database systems
- Standardized – many new features over time
- Interactive via GUI or prompt, or embedded in programs
- Declarative, based on relational algebra



Data Definition Language (DDL)

Create table . . .

drop table ...

Data Manipulation Language (DML)

select

insert

delete

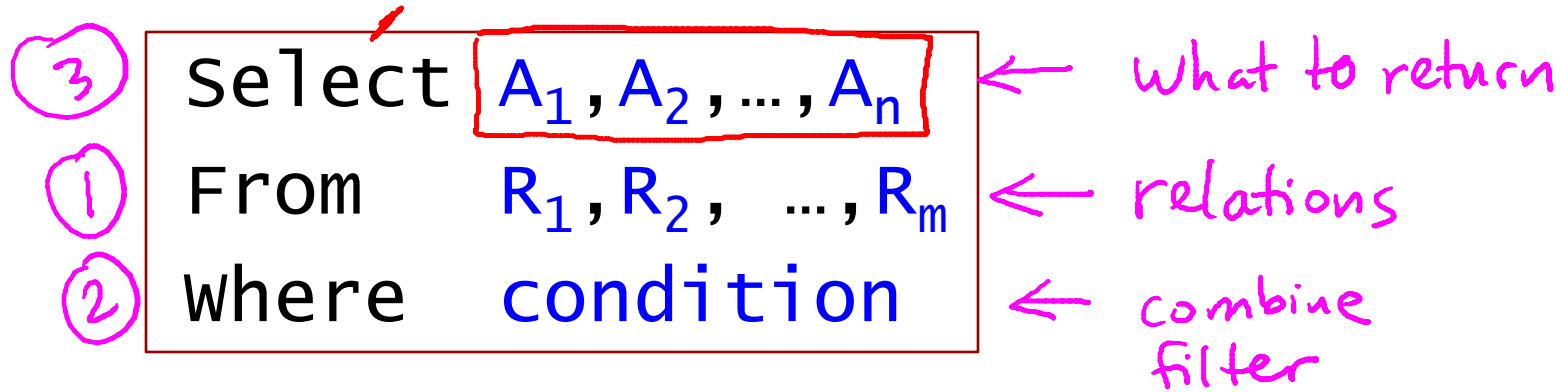
update

Other Commands

indexes, constraints, views, triggers, transactions, authorization, ...



The Basic SELECT Statement



$$\pi_{A_1, \dots, A_n} (\sigma_{\text{condition}} (R_1 \times \dots \times R_m))$$

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