



Business School
UNIVERSITY OF COLORADO DENVER

Information Systems Program

Module 4

Basic Query Formulation with SQL

Lesson 1: SQL Overview



Lesson Objectives

- Briefly explain the three types of SQL statements
- Gain insight about the level of conformance for the SQL standard



Structured Query Language (SQL)

Database
definition,
control, and
manipulation

International
standard

Standalone
and
embedded
usage



Major SQL Statements

Statement	Statement Type
CREATE TABLE	Definitional, Control
CREATE VIEW	Definitional
CREATE TYPE	Definitional
SELECT	Manipulation
INSERT, UPDATE, DELETE	Manipulation
COMMIT, ROLLBACK	Manipulation
CREATE TRIGGER	Control, Manipulation
GRANT, REVOKE	Control



SQL Conformance

- No official conformance testing
- Vendor claims about conformance
- Reasonable conformance on Core SQL
- Large variance on conformance outside of Core SQL
- Difficult to write portable SQL code outside of Core SQL



Summary

- SQL: broad language with weak conformance
- SELECT statement: important and complex
- Lots of practice to master query formulation and the SELECT statement

