SQL Statement Types
Data Manipulation and Views
Select, Insert, Delete, Update & Create View
Queries: Select

• One all-purpose query statement
  – combines PROJECTION
  – CARTESIAN PRODUCT
  – SELECTION
• SELECT (fields)
  FROM (tables)
  WHERE (conditions)
  – Other clauses for added power:
    • ORDER BY (sorting)
    • GROUP BY, HAVING (subgrouping)
INSERTION

• INSERT INTO table VALUES (list of values for all fields)
  – fields must be in same order as declared in create table

• INSERT INTO table(list of fields) VALUES (values for listed fields)
  – Other fields are left null
INSERTION (cont.)

• INSERT INTO table(list of fields)
  SELECT fields
  FROM tables
  WHERE conditions
  – Copies data from one place to another within the database
DELETION

• DELETE FROM table
  WHERE condition
UPDATES

• UPDATE table
  SET field = expression, ...
  WHERE condition
VIEWS: Virtual Tables

• CREATE VIEW name AS
  SELECT fields
  FROM tables
  WHERE conditions