

Action Statements

INSERT
DELETE
UPDATE

Insert, Inserting partial record

```
INSERT INTO employee  
VALUES ('Richard', 'K', 'Marini',  
653298653, #12/30/1962#,  
'98 Oak Forest, Katy', 'M',  
37000, 987654321,4);
```

```
INSERT INTO employee (fname, lname, dno, ssn)  
VALUES ('Richard', 'Marini', 4, 653298653);
```

Multiple Insert

```
INSERT INTO table  
SELECT ...;
```

- Create a department table containing: department name, number of employees, and total salary.
- Create a project table containing: project name, and total weekly hours worked on the project.

Delete

DELETE FROM table
WHERE condition;

Access:
DELETE * FROM table
WHERE condition;

Example: delete all employees in the research department.

Or to delete all records in a table:

DELETE FROM table;

Update

UPDATE table
SET attribute = value, attribute = value ...
WHERE condition

- Move project 10 to the Bellaire location of department 5.
- Increase the salary of everybody in the research department by 6 percent.

Integrity Violations?

What if we insert a record with a duplicate p.k.?

What else can we do wrong with

INSERT, DELETE, UPDATE ?
