



Module 5

Extended Query Formulation with SQL

Lesson 5: SQL modification statements

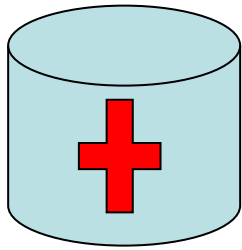


Lesson Objectives

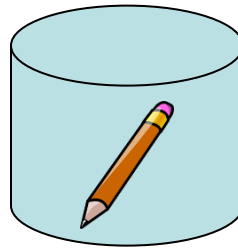
- Write basic INSERT statements
- Write basic UPDATE statements
- Write basic DELETE statements



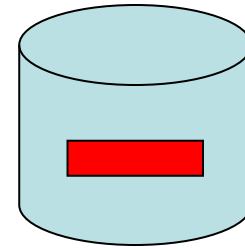
Modification Statements



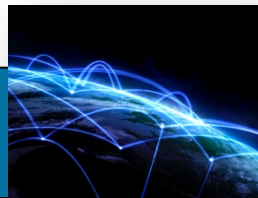
INSERT



UPDATE



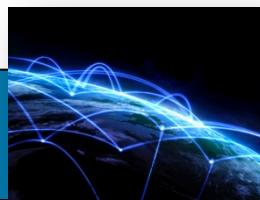
DELETE



SQL INSERT Example

Example 1: Insert a row into the *Student* table supplying values for all columns.

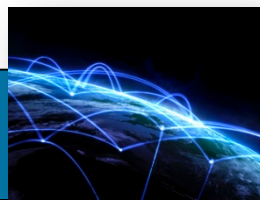
```
INSERT INTO Student
  (StdNo, StdFirstName, StdLastName,
   StdCity, StdState, StdZip, StdClass,
   StdMajor, StdGPA)
VALUES ('999-99-9999', 'JOE', 'STUDENT', 'SEATAC',
       'WA', '98042-1121', 'FR', 'IS', 0.0);
```



SQL UPDATE Example

Example 2: Change the major and class of Joe Student.

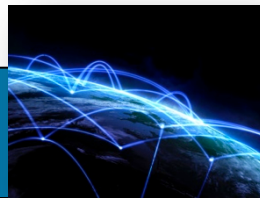
```
UPDATE Student
  SET StdMajor = 'ACCT',
      StdClass = 'SO'
 WHERE StdFirstName = 'JOE'
      AND StdLastName = 'STUDENT';
```



SQL DELETE Example

Example 3: Delete Joe Student in the Student table.

```
DELETE FROM Student  
WHERE StdFirstName = 'JOE'  
AND StdLastName = 'STUDENT';
```



Summary

- Modification statements simpler than the SELECT statement
- Modification statements less common in direct usage
- Important variations for data integration usage

