Базы данных

Лекция 9

Язык SQL.

DML

DML

- INSERT
- UPDATE
- DELETE

INSERT

- Однострочный оператор:

INSERT INTO <таблица> [(<список столбцов>)]
VALUES (<список значений>);

Пример:
INSERT INTO Student (Number, LastName, FirstName,
Group, BirthDate, Salary)
 VALUES (1003456, 'Иванов', 'Петр', NULL,
'01.01.1990', 1300)

INSERT

INSERT INTO employee(ID, FirstName, LastName, Email, HireDate, Job_ID, Salary, CommissionPct, Manager_ID, Department_ID) VALUES (113, 'Louis', 'Popp', 'lPopp@gmail.com', SYSDATETIME(), 15, 6900, NULL, 205, 110);

INSERT

- Многострочный оператор:
  INSERT INTO <таблица> [(<список столбцов>)]
  оператор SELECT
- Пример:

INSERT INTO Sales_reps(ID, Name, Salary, Commission_pct)

SELECT Employee_id, Last_name, Salary, Commission_pct

FROM employee

WHERE job_id LIKE '%REP%';

UPDATE

- UPDATE <таблица> SET <столбец1> = <значение1> [, …]
  [WHERE <условие отбора>]
- Примеры:

UPDATE Employee

SET Department_id = 50

WHERE ID = 113;

UPDATE Copy_emp

SET Department_id = 110;

UPDATE

UPDATE Employee

SET (Job_id, Salary) =

SELECT (Job_id, Salary

FROM Employee

WHERE ID = 205)

WHERE ID = 103;

UPDATE Employee

SET Job_id = SELECT Job_id FROM Employee WHERE ID = 205,
Salary = SELECT Salary FROM Employee WHERE ID = 205

WHERE ID = 103;

DELETE

DELETE FROM <таблица>

[WHERE <условие отбора>];

• Пример:

DELETE FROM Department

WHERE ID = 123;

DELETE FROM Copy_emp;

DELETE

DELETE FROM Employee

WHERE Department_ID IN

(SELECT Department_ID

FROM Deartment

WHERE Name LIKE '%Public%');

TRUNCATE

- TRUNCATE TABLE <table_name>
- Удаляет все строки из таблицы;
- DDL-оператор
- Быстрее DELETE (не вызываются триггеры и др.).