



CSE 311L(Database Management System)

LAB-Week 07 (Part A)

Manipulating Data

Topics:

- ▶ Copying Rows from Another Table
- ▶ Updating Rows in a Table
- ▶ Updating Rows Based on Another Table

Copying Rows from Another Table

```
INSERT INTO salesreps(id, name, salary, commission_pct)
SELECT employee_id, last_name, salary, commission_pct
FROM employees WHERE job_id LIKE '%REP%';
```

Updating Rows in a Table

```
UPDATE employees
SET department_id = 70
WHERE employee_id = 113;
```

Updating Rows Based on Another Table

```
UPDATE copy_emp
SET department_id = (SELECT department_id
                     FROM employees
                     WHERE employee_id = 100)
WHERE job_id       = (SELECT job_id
                     FROM employees
                     WHERE employee_id = 200);
```

Activity 01:

Change the job id to ST_OFFICER whose job id is ST_CLERK.



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LAB-Week 07 (Part B)

Managing Tables

Topics:

- ▶ The ALTER TABLE Statement
- ▶ Adding a Column
- ▶ Modifying a Column
- ▶ Dropping a Column
- ▶ Changing the Name of an Object
- ▶ Truncating a Table
- ▶ Add PRIMARY KEY/ FOREIGN KEY constraints
- ▶ CREATE VIEW

The ALTER TABLE Statement

Use the ALTER TABLE statement to:

- Add a new column
- Modify an existing column
- Define a default value for the new column
- Drop a column

Adding a Column

```
ALTER TABLE dept80  
ADD job_id VARCHAR(9);
```

Modifying a Column

```
ALTER TABLE dept80  
MODIFY last_name VARCHAR(30);
```

Dropping a Column

```
ALTER TABLE dept80  
DROP COLUMN job_id;
```

Dropping a Table

```
DROP TABLE dept80;
```

Changing the Name of an Object

```
RENAME dept TO detail_dept;
```

Truncating a Table

```
TRUNCATE TABLE detail_dept;
```

Add PRIMARY KEY/ FOREIGN KEY constraints

```
ALTER TABLE employees  
ADD CONSTRAINT emp_manager_fk  
FOREIGN KEY(manager_id)  
REFERENCES employees(employee_id);
```

Creating a View

- Create a view by using column aliases in the subquery.

```
CREATE VIEW salvu50  
AS SELECT employee_id ID_NUMBER, last_name NAME,  
          salary*12 ANN_SALARY  
FROM employees  
WHERE department_id = 50;  
View created.
```

Activity 01:

Create the EMP table based on the following table instance chart..

Name	Null?	Type
ID		NUMBER(7)
LAST_NAME		VARCHAR2(25)
FIRST_NAME		VARCHAR2(25)
DEPT_ID		NUMBER(7)

- Modify the EMP table to allow for longer employee last names. Confirm your modification.
- Create the EMPLOYEES2 table based on the structure of the EMPLOYEES table. Include only the EMPLOYEE_ID, FIRST_NAME, LAST_NAME, SALARY, and DEPARTMENT_ID columns. Name the columns in your new table ID, FIRST_NAME, LAST_NAME, SALARY, and DEPT_ID, respectively.
- Drop the EMP table.
- Rename the EMPLOYEES2 table as EMP.
- Drop the FIRST_NAME column from the EMP table. Confirm your modification by checking the description of the table.