

## DB2 Views

### Task 1. Updatable views (in the following tasks, use database SAMPLE)

1. Create view pers\_data, presenting the data of employees: first and last names (from table employee), name and location of the department (from table department).
2. Replace the view pers\_data with the new one which include also the personal data of the department manager.

3. Create view sal\_data, containing the following data: personal data of each employee (number, first and last names) and data about its salary (salary, bonus and comm), and total salary (sum of salary, bonus and comm).

4. Can the view sal\_data be used to:

(a) delete rows from table employee (b) modify (c) insert?

If the answer to (a), (b) or (c) is yes, then perform this operation (check, how it changes the data in the view and the table).

5. Create three views based on table employee. Each view must contain the personal data of each employee (i.e., first and last names). Moreover,

(a) the first view is deletable

(b) the second view is updatable (and can be used to update first and last name, birth date, and phone number of an employee)

(c) the last view is insertable.

Include in each of the views only the necessary columns.

Using the first view, delete an employee; using the second, update its data; use the third to add new employee (check, how it changes the data in the view and the table).

### Task 2. Updatable views – using CHECK option (in the following, use database SAMPLE)

1. Create view dept\_e11 which contains the following data: first and last name, department number and salary for each employee from department E11 (the view must be insertable).
2. Using this view, (a) add new employee to department E11 (b) add new employee to department different than E11.
3. Check the data in table employee and in the view.

4. Change the view definition in such a way that the view does not allow to violate the department condition in data modification operations.

5. Using this view, try to (a) add new employee to department E11 (b) add new employee to department different from E11. Which task can be performed?

6. Using this view, try to change the salary of employee number 000300 to 35.000. Is it possible? Explain why the CHECK option does not blocked such a change.

7. Using this view, try to change the department number of employee number 000300 to E21. Is it possible? Explain.