

IT2140 - Database Design and Development

Department of Information Technology, Faculty of Computing

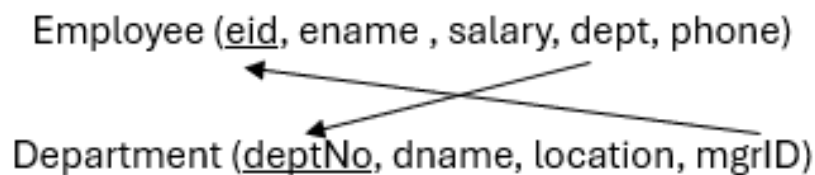
Year 2 semester 1 (2025)

Tutorial 08

Learning outcomes:

- Understand and apply basic relational algebra operations such as selection, projection, and join on a given relational schema.

Consider the following schema and write relational algebra statements to cater the given queries



1. Print names of all employees.
2. Print names of employees working for “Administration” department.
3. Print names of employees working for ‘Administration’ department and getting a salary > Rs. 50,000.
4. Print names of all employees and assigned department’s name.
5. Print names of employees managing ‘Administration’ or ‘Sales’ department.
6. Print names of employees managing ‘Administration’ and ‘Sales’ department.
7. Print names of employees managing ‘Administration’ but not ‘Sales’ department.
8. Print the names of employees who does not hold a managerial position.
9. Print department name and number of employees in each department.

10. Print department name and number of employees only if the number of employees is greater than 10.
11. Find the department having highest number of employees working in it.
12. Print the name of the department in which all employees working in the department is having a salary greater than 30000.