

**Digital Assessment 2**  
**CSE2004 Database Management System**  
**Fall Sem 2021-22**

1. Consider the following SQL queries of Company database. Draw the initial query tree for each of these queries, and show how the query tree is optimized by heuristic optimization algorithm
  - i) Retrieve the Fname, Lname and address of all the employees who work for the 'Computer Science' department.
  - ii) Retrieve Name, address, salary and Dlocation of the employees whose department located in 'Delhi' and salary > 50000.
  - iii) Retrieve all project numbers for projects that involve an employee whose last name is 'Smith', as a manager of the department that controls the project.
2. Do a detailed case study on NoSQL Databases and Bigdata technologies