

Assignment 5

1. Using Domain and Tuple Calculus answer the following:
Project(project#,p_name,chief_architect)
Employee(emp#,ename)
 - a) Obtain the list of employees working on project comp212
 - b) Get the employee details of the employees working on a database project
 - c) List the complete details about the employees working on both comp212 and comp555
 - d) Get the employee number of employees who do not work on project comp555
 - e) Compile a list of employee numbers of employees who work on all the projects.

Assignment 6

1. What do you mean by lossless joins? Explain with suitable examples
2. What do you mean by functional dependency? Explain the different types
3. $R=\{A,B,C,D,E\}$ $F=\{A\rightarrow BC, B\rightarrow D, CD\rightarrow E, E\rightarrow A\}$
Check whether F is the canonical cover of itself. If it is not then what is the canonical cover?
4. What is the need for normalization? Explain 1st, 2nd, 3rd NF with examples.