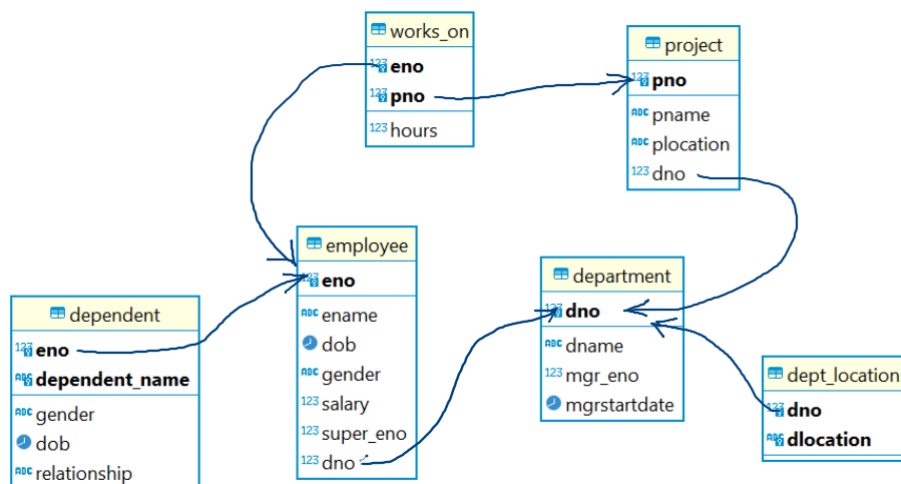# Queries based on Selection and Project operations:

XIT Database

> **DEPARTMENT** (<u>did</u>, dname)
> **PROGRAM** (<u>pid</u>, pname, intake, did)
>   Foreign Key: did REFERENCES department (dno)
> **STUDENT** (<u>studid</u>, name, progid, batch, cpi)
>   Foreign Key: progid REFERENCES program (pid)

1. List (ID, Name) of Students from Prog ID = 'BCS' and are having cpi > 7.5
2. List (ID, Name) of Students from Prog ID = 'BCS' or Prog ID = 'BIT' and are having cpi > 7.5

Company Database

1. List all employee of DNO=4
2. List employees having salary > 30000
3. List (ENO, Name, Salary) for all employees
4. List (ENO, Name, Salary) for all employees of DNO=4
5. List (ENO, Name, Salary) of all Female Employees
6. List eno, name of employees who are supervised by eno=105
7. List (ENO, Name, Salary) having salary >= 10000 and <= 30000
8. List employees either working dno=4 and salary > 25000 or working dno=5 and salary > 30000.
9. List employees who are older than 50 years

Queries based on JOIN operations:

XIT Database

1. List (prog-name, deptt-name) of program offered at XIT
2. List students who are studying in CS department
3. List (stud-name, prog-name) of all students
4. List student name, program name of students having cpi > 7.5
5. What name of department in which student id = 123 is studying?
6. List ID and Name of students of BTech(CS) and BTech(ECE)

Company Database

1. List ENO, Name, DName of all employees
2. List ename, salary of all Female Supervisors
3. List Fname, Salary of all Female Managers
4. List employees having salary > their manager (manager of their department)
5. List Employee that are working on projects monitored by DNO=4
6. List Employee Name, Supervisor Name (if any)
7. List employees (eno, name) that work on projects managed by department 'Research'.

Queries based on SET operations:

Company Database

1. List Eno of non-managers, i.e., they are not manager of any department
2. List Eno of non-managers, i.e., they are not manager of any department
3. List Eno, Ename, Salary of non-managers, i.e., they are not manager of any department
4. Find out Employees (eno, ename, salary) that are directly (works for) for dno=4 or indirectly associated with (work on projects managed by) dno=4
5. List SSN, FNAME of employees who work on at least one project.
6. Compute employees (eno, ename, salary) that are supervisors (supervises some employees) but not managers (that are manager of any department)
7. Compute employees (eno, ename, salary) that are supervisors or Managers but not both