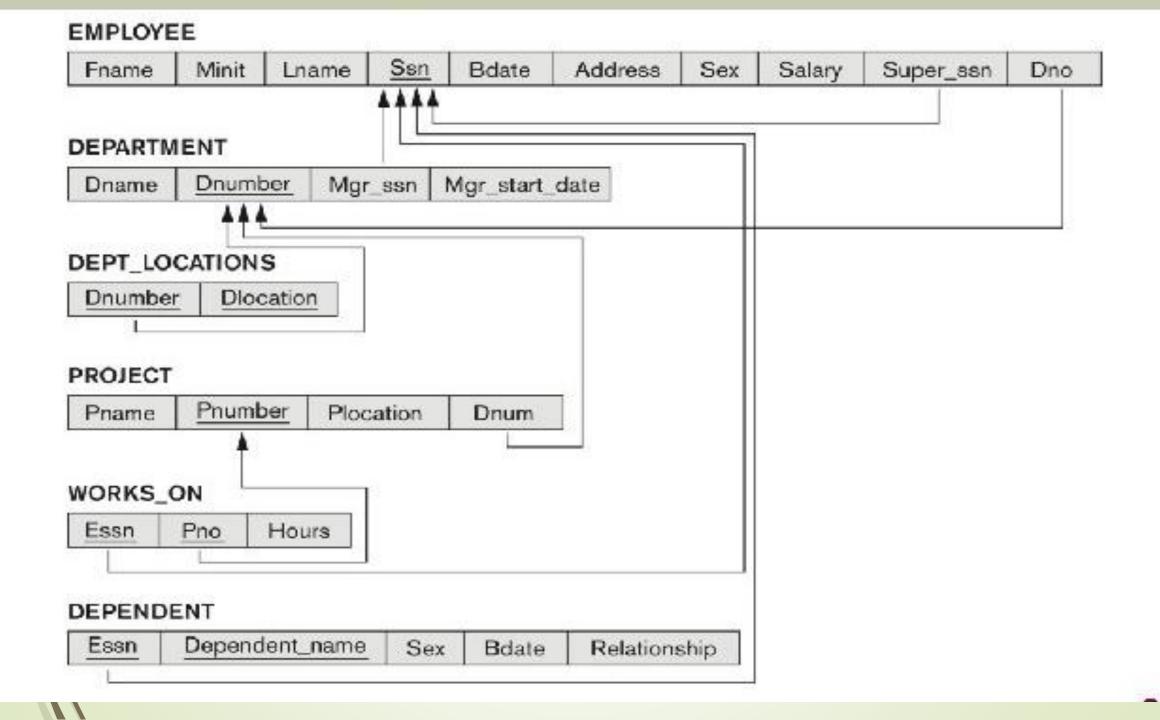
Advanced Database

Lecture 3



■ Query 0. Retrieve the birth date and address of the employee(s) whose name is 'John B. Smith'.

- SELECT Bdate, Address
- FROM EMPLOYEE
- ►WHERE Fname='John' AND Minit='B' AND Lname='Smith';

■ For each employee, retrieve the employee's first and last name and the first and last name of his or her immediate supervisor.

- SELECT E.Fname, E.Lname, S.Fname, S.Lname
- FROM EMPLOYEE AS E, EMPLOYEE AS S
- WHERE E.Super_ssn=S.Ssn;

Query 1. Retrieve the name and address of all employees who work for the 'Research' department.

- SELECT Fname, Lname, Address
- FROM EMPLOYEE, DEPARTMENT
- ■WHERE Dname='Research' AND Dnumber=Dno;

- Query 2. For every project located in 'Stafford', list the project number, the controlling department number, and the department manager's last name, address, and birth date.
- SELECT Pnumber, Dnum, Lname, Address, Bdate
- FROM PROJECT, DEPARTMENT, EMPLOYEE
- ► WHERE Dnum=Dnumber AND Mgr_ssn=Ssn AND Plocation='Stafford';

Unspecified WHERE Clause

- **■** Queries 9 and 10. Select all EMPLOYEE Ssns (Q9) and all combinations of EMPLOYEE Ssn and DEPARTMENT Dname (Q10) in the database.
- Q9: SELECT Ssn
- ► FROM EMPLOYEE;
- Q10: SELECT Ssn, Dname
- ► FROM EMPLOYEE, DEPARTMENT;

- **■** Query 11. Retrieve the salary of every employee (Q11) and all distinct salary values (Q11A).
- Q11: SELECT ALL Salary
- ► FROM EMPLOYEE;
- Q11A: SELECT DISTINCT Salary
- ► FROM EMPLOYEE;

■ Query 4. Make a list of all project numbers for projects that involve an employee whose last name is 'Smith', either as a worker or as a manager of the department that controls the project.

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(SELECT DISTINCT Pnumber FROM PROJECT, DEPARTMENT, EMPLOYEE WHERE Dnum=Dnumber AND Mgr_ssn=Ssn AND Lname='Smith') UNION
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(SELECT DISTINCT Pnumber FROM PROJECT, WORKS_ON, EMPLOYEE WHERE Pnumber=Pno AND Essn=Ssn AND Lname='Smith');

Query 12. Retrieve all employees whose address is in Houston, Texas.

SELECT Fname, Lname

FROM EMPLOYEE

WHERE Address LIKE '%Houston,TX%';

Query 12A. Find all employees who were born during the 1950s.

SELECT Fname, Lname

- ► FROM EMPLOYEE
- WHERE Bdate LIKE '__5___';