DBMS LAB EXAM

15/05/2021. Branch-CSE

GROUP-10

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SELECT * FROM Employee E

WHERE E.Eno IN (SELECT Eno

FROM Dependent

WHERE E.Iname = Dep-name

AND E.Sex = Sex);

SELECT Pno, Pname, COUNT(*)

FROM Project, Works_no

WHERE Project. Pno: Works_no. Pno

GROUP BY Pno, Pname

Having COUNT(*)72;

SELECT Dno, count(*)

FROM Department, Employee

WHERE Department, Dno: Employee.Dno

AND Salary > 50,000 AND

Employee.Dno IN (SELECT Dno

FROM Employee

GROUP BY Dno

Having Count(*) > 73)

GROUP BY DNO

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SELECT *
FROM Department, Project
WHERE Department. Dno = Project. Dnum
GROUP BY Pno
 HAVING COUNT (Pno) 71 AND
 Count ( Plocation ) 71.
SELECT *
 From Employee E
 WHERE E. Eno IN ( SELECT Eno
                    FROM Dependent
                    WHERE Relation: 'Manger'
                    GROUP BY Relation
                     HAVING COUNT (*) 71 )
 GROUP BY Eno
  HAVING COUNT (*) 710;
 Given Pid -> CN, Po, A, Pf, Tax
        CN, Po -> Pid, A, Pr, Tax
        CN -> Tax
        A -> PY
    Finding Keys
         Pid = Pid, CN, Po, A, Pr, Tax
        CH+ = CN, Tax
         Pot = Po
```

At = Pr, A

Prt = Pr

Taxt = Tax

i key = EPid 3

Prime attributes = { Pid?

non-prime attributes = {cN, Po, A, Pr, Tax}.

- -> Already the table is in Inf as there are no multivalue attributes
- → The table is also in 2nf as there is no partial dependencies.

But not in 3nf as there are transitive dependencies

CN, Po -> Pid, A, Pr, Tax

CN -> Tax

A -> PY

To convert into 3nf He divide table as

follows

g cn, tax } { Area, Pr } CM+ -> tax : key = CM Area -> Pr, A : Key = A Soit is 3nf So it is 3 nf

{ CN, Po, Pid, A } Pid + > Po, CH, A Pot, CN+ > A, Pid : key = { Pid } { Po, CN } So it is 3nf.