

Assignment 3

day / date:

DB Lab 3
21K-3153

- ① no attributes can be decomposed.
already in 2F.

Primary keys:

① Project Code:

~~Project Code~~ →

~~Project Code~~ → Project Name

Project Code → Project Manager

Project Code → Project Budget

② Employee_Id:

EmployeeID → EmployeeName

③ DepartmentNo:

Dno → Dname

Dno → Rate

All nonprime attributes are fully functionally dependent on their respective primary key. This table is already 2F.

No transitive dependencies in the relation. 3NF

Q2

1 S-ID & C-ID

2 Adding a new tuple to input a 'C-Grade' would mean adding @ information about sid, sname, campus location & major.

mean that
Updating major will ~~cause~~ changes need to be made to campus location, C-ID, C-title.

3 S-ID \Rightarrow major, sname, campus location
C-ID \Rightarrow CTitle, fname
sid, cid \Rightarrow grade
fname \Rightarrow flocation

\Rightarrow trans INF, WF
~~trans~~

transitive dependency:

@ Cid \Rightarrow fname
 \hookrightarrow \rightarrow flocation

fname primary

fname floc

cid ctitle fname

day / date:

Student

Sid

Sname

Cmp Location

Major

Course

Cid

Ctitle

Fname

Grade

Sid

Cid

~~Cgrade~~

C Grade

Faculty

Fname

Flocation

day / date:

Q3

