CSC261 Milestone 3

Muhammad Usama Ijaz, Akira Ranjan Sah March 2020

Database is already in BCNF.

Task A

1

Students: R(id,name, email, address, major)

 $id \rightarrow name, email, address, major)$

And student_id is the Super-Key, hence Students is in BCNF.

Employers: R(id,name, email, address, phone)

 $id \rightarrow name,email,address,phone$

And employer_id is the Super-Key, hence Students is in BCNF.

Jobs: R(id,empl_id, description, majors)

 $id \rightarrow empl_id$, description, majors)

And job_id is the Super-Key, hence Jobs is in BCNF.

Faculty: R(id,name, department, email)

 $id \rightarrow name, department, email)$

And faculty_id is the Super-Key, hence Jobs is in BCNF.

Referrals: R(id,student_id, faculty_id, job_id)

 $id \rightarrow student_id$, faculty_id, job_idl)

Our system allows for the same faculty to refer the same student to the same

job, therefore the id is the super key in R(Referrals)

