Functional dependencies are

DEP\_NUM 🡪 DEP\_NAME

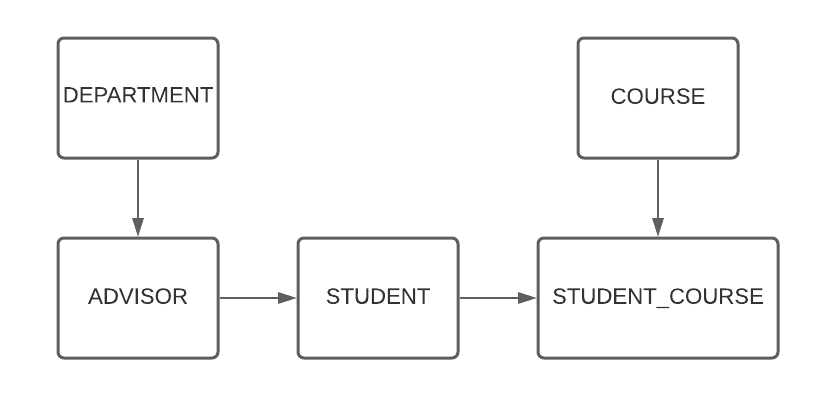
ADVISOR\_NUM 🡪 ADVISOR\_FIRST\_NAME, ADVISOR\_LAST\_NAME, DEP\_NUM

COURSE\_CODE 🡪 DESCRIPTION

STUDENT\_NUM 🡪 STUDENT\_FIRST\_NAME, STUDENT\_LAST\_NAME, ADVISOR\_NUM

STUDENT\_NUM, COURSE\_CODE 🡪 GRADE

E-R Diagram



Tables with primary keys/composite keys underlined.

DEPARTMENT(DEP\_NUM, DEP\_NAME)

ADVISOR(ADVISOR\_NUM, ADVISOR\_LAST\_NAME, ADVISOR\_ FIRST\_NAME, DEP\_NUM)

STUDENT(STUDENT\_NUM, STUDENT\_LAST\_NAME, STUDENT\_FIRST\_NAME, ADVISOR\_NUM)

COURSE(COURSE\_CODE, DESCRIPTION)

STUDENT\_COURSE(STUDENT\_NUM, COURSE\_CODE, GRADE)

For the next part it would be the same tables since its already in third normal form

DEPARTMENT(DEP\_NUM, DEP\_NAME)

ADVISOR(ADVISOR\_NUM, ADVISOR\_LAST\_NAME, ADVISOR\_ FIRST\_NAME, DEP\_NUM)

STUDENT(STUDENT\_NUM, STUDENT\_LAST\_NAME, STUDENT\_FIRST\_NAME, ADVISOR\_NUM)

COURSE(COURSE\_CODE, DESCRIPTION)

STUDENT\_COURSE(STUDENT\_NUM, COURSE\_CODE, GRADE)