

Lab 4

1 a. 3 phases: initial, second, final

Initial: characterize fully the data needs of users.

Second: choosing a data model

Final: implementation of database

1. b.

ER data model defines the data elements & relationship for a specified system.

2 a) Student

ID (simple)

full-name

first-name
middle-name
last-name

? com
? po
site

{ phone-number } : (multivalued)

date-of-birth

{ de
ri
ved }

age

University

ID
name
city

Course

ID
title
faculty

Dormitory

ID
address
cost

Office of registrar

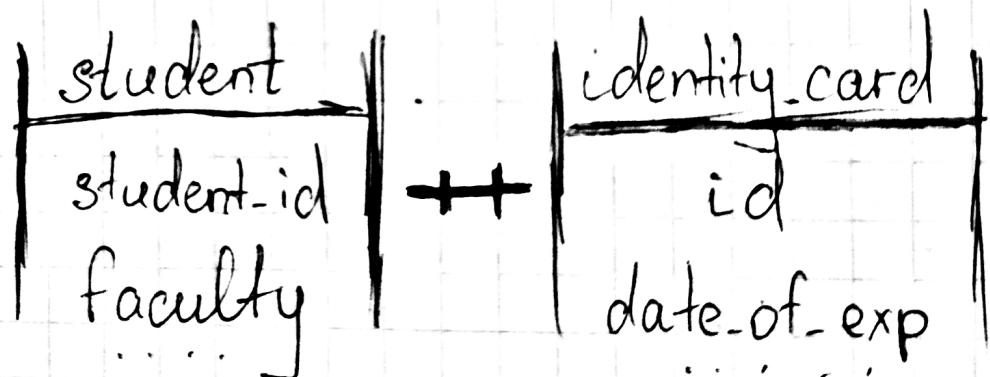
manager_id
{ phone-number }
room

Teacher

ID
name { first-name
last-name }
faculty

3.

1 to 1

product

id

category

1 ..

reviews

product-id

rate

... ...

