Design phases

1st - characterize fully the data needs of the prospective database users

2nd - choosing a data model:

• Applying the concepts of the chosen data model

Translating these requirements into a conceptual schema of the database.

Describe the kinds of operations (or transactions) that will be performed on the data.

3rd - implementation of the database:

Logical Design – Deciding on the database schema:

- Database design requires that we find a "good" collection of relation schemas.
- Business decision –What attributes should we record in the database?
- Computer Science decision –What relation schemas should we have and how should the attributes be distributed among the various relation schemas?

Physical Design – Deciding on the physical layout of the database

2) a) 6) Student ID name first_name last_name nationality {phone - number} date_of_birth age () department - name year of chudy

University

ID

title

address
street _ number

street _ name

city
state
eip

{ phone _ number }

{ owner }

Teacher

ID

name
first_hame
last_hame
hationality
date_of_birth

academic degree
{ phone_humbery
asg()

department_hame

Cource

ID

title

credits

dept_name

Dormitory

ID

address

street_number

street_number

eity

state

zip

q phone_number

capacity

Office of registar

ID

"email_address

Ephone_number;





