Subject: Software Engineering

Subject Code: CS3273

Section: Gx

Topic: Data modelling of software development

Assignment - 6

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Data Modeling

- Data modeling is the process of creating a conceptual representation of data and its relationships in a specific domain or system.
- This representation is usually in the form of a diagram or a set of diagrams, which show the data entities, attributes, relationships, and constraints in a clear and understandable manner.

Data Modeling continues...

- The main goal of data modeling is to create a blueprint for a database or information system, which can be used as a basis for designing, implementing, and maintaining the system.
- The data model also helps to ensure that the data is accurate, consistent, and complete, and can be easily queried and manipulated.

Data Base Schema

Table students {
 student_id integer [primary key]
 student_name varchar
 program varchar
 year integer
 phone_number integer

- ► Table fees{
- student_id integer [primary key]
- fee_id integer [pk]
- x1_fees decimal
- x2_fees decimal
- x3_fees decimal
- due_date date
- **** }

- ► Table course{
- student_id integer [primary key]
- subject1 varchar
- subject2 varchar
- subject3 varchar
- **** \}

```
Table payment{
fee_id integer [primary key]
payment_id integer [primary key]
date varchar
amount decimal
payment_method varchar
```

- Table finance_dept {
- employee_id integer [pk]
- name varchar
- phone_number integer
- **** }



integer

	rees		
<	student_id	integer	
	fee_id	integer	
	x1_fees	decimal	
	x2_fees	decimal	
	x3_fees	decimal	
	due_date	date	

	payment	
*	fee_id	integer
	payment_id	integer
	date	varchar
	amount	decimal
	payment_method	varchar

finance_dept	
employee_id	integer
name	varchar
phone_number	integer

phone_number

	course		
<	student_id	integer	
	subject1	varchar	
	subject2	varchar	
	subject3	varchar	