DATABASE SYSTEM PRACTICUM REPORT MODULE 3 E-R DIAGRAMS DESIGN WITH DBDESIGNER

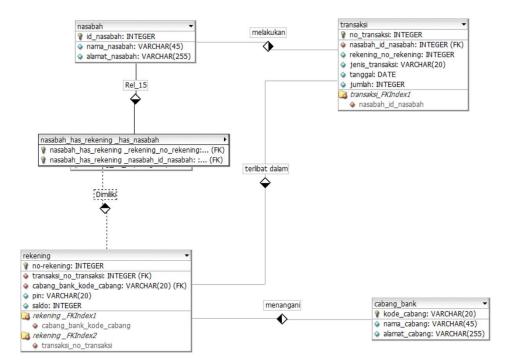


CREATED BY : KURNIAWAN BAGASKARA L200214253

INFORMATICS STUDY PROGRAM

FACULTY OF COMMUNICATION AND INFORMATION SCIENCEMUHAMMADIYAH SURAKARTA UNIVERSITY

Test.



- 1.
- ❖ Define Entity (Stage 1)
- A. Student: store student personal data
- B. Lecturer: save the personal data of the lecturer
- C. Subject: save course data
- D. Classroom: store classroom data
- ❖ Determine the attributes of each entity according to the needs of the database (Stage 2)
- A. Student
- NIM : PK
- Name Student : Varchar (45)
- Address Student: Varchar (225)
- B. Lecturer
- NIDN: PK
- Name Lecturer: Varchar (45)
- Address Lecturer: Varchar (225)
- C. Subject
- Code Subject : PK
- Name Subject : Varchar (45)
- Semester : Varchar (14)
- SKS : Varchar (149)
- D. Classroom
- Code Space : PK
- Capasity : Varchar
- ❖ Determine the relationship of each entity (Stage 3)

Name	Student	Lecturer	Subject	Classroom
Student	-	1:1	-	-
Lecturer	-	-	1:1	-
Subject	n:1	-	-	-
Classroom	-	-	1:1	-

Releationship:

A. Student Have Lecturer:

Main Table : Student
 Second Table : Jackson

Second Table : Lecturer

• Realationship : *One-to-One* (1:1)

• Connecting attribute : Id_Lecturer (FK Id_Lecturer in Lecturer)

B. Student Take SubjectMain Table : StudentSecond Table : Subject

Second Table : Subject

• Relationship : *One-to-Many (1:n)*

• Connecting attribute : Code Subject (FK Code Subject in Subject)

C. Classroom Used Subject :Main Table : Subejet

• Second Table : Classroom

• Realationship : One-to-One (1:1)

• Connecting attribute: Code Space (FK Code Space in Classroom)

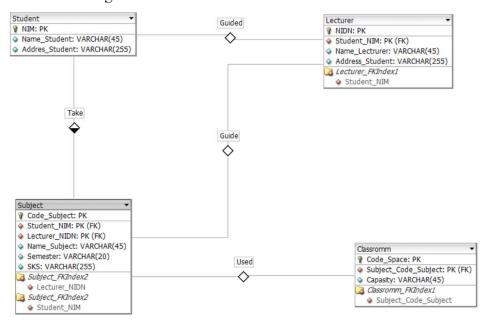
D. Lecturer Guide Subject:

Main Table : SubjectSecond Table : Lecturer

• Relationship: One-to-One (1:1)

• Connecting attribute : Code Subject (FK Code Subject in Subject)

Draw ERD Diagrams



- 2.
- ❖ Define Entity (Stage 1)
- A. User
- B. Product
- C. Store
- D. Order
- ❖ Determine the attributes of each entity according to the needs of the database (Stage 2)
- A. User
- Id User: Integer
- User Name : Varchar(45)
- B. Product
- Id Product : Integer
- Product Name: Varchar(225)
- Product_Price : IntegerProduct Stock : Integer
- C. Store
- Id Store: Integer
- Store Name: Varchar(225)
- D. Order
- Id_Order : IntegerOrder Time : Date
- ❖ Determine the relationship of each entity (Stage 3)

Name	User	Product	Store	Order
User	-	-	-	1:n
Product	-	-	-	n:1
Store	1:1	1:n	-	-
Order	-	-	1:1	-

- A. User Orders Order
- Main Table : User
- Second Table : Order
- Relationship : *One to Many (1:n)*
- Connecting attribute : Id User(FK Id User in Order)
- B. Store Have Product
- Main Table : Store
- Second Table : User
- Relationship : *One to one (1:1)*
- Connecting attribute : Id Store (FK Id Store in User)
- C. Store Own Product
- Main Table : Store
- Second Table: Store Own Product
- Relationship : *One to Many (1:n)*
- Connecting attribute : Id Store (FK Id Store in Product)

D. Product Owned Order

• Main Table : Product

• Second Table : Product Owned Order

• Relationship : *Many to One(1:n)*

• Connecting attribute : Id Product (FK Id Product in Order)

E. Order Owned StoreMain Table : Order

Second Table : Order_Owned_StoreRelationship : One to one (1:1)

• Connecting attribute : Id Order (FK Id Order in Store)

❖ Draw ERD Diagrams (Stage 4)

