**STEP 1: Mapping of Regular Entities**

For each regular entity type E in the ER schema, create relation R that

includes all simple attributes of E.

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**APPOINTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Bookid** | email | fname | lname |

**PAYMENT**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Payid** | cardtype | choldername | cardno | expdate | cvv | amount |

**CONTACT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **conid** | name | message | email | phno |

**STEP 2 : Mapping of Weak Entity Types**

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**FEEDBACK**

|  |  |  |  |
| --- | --- | --- | --- |
| **userid** | message | name | email |

**FK**

**STEP 3: Mapping of 1:1 Relationship**

Identify the relation S that represents the participating entity type at the 1-side

of the relationship type. Include as foreign key in S the primary key of the

relations T that represents the other entity type participating in R.For each

binary 1:1 relationship type R in ER schema, identify the relations S and T that

correspond to the entity types participating in R if any**.**

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**PAYMENT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **payid** | **userid** | cardtype | choldername | cardno | expdate | cvv | amount |

**STEP 4: Mapping of 1: N Relationship**

**a)USERS AND CONTACT**

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**CONTACT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **conid** | name | message | email | phno |

**FK**

**b)USERS AND FEEDBACK**

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**FEEDBACK**

|  |  |  |  |
| --- | --- | --- | --- |
| **userid** | message | name | email |

**FK**

**STEP 5: Mapping of M: N Relationship**

Create a new relation S to represent R. Include as foreign key attributes in S the

primary key of the relations that represents the participating entity types them

combination will form the primary key of S. Also, include any simple attributes

of the M: N relationship type as attributes of S.

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**BOOKS**

|  |  |
| --- | --- |
| **userid** | **bookid** |

**FK FK**

**APPOINTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Bookid** | email | fname | lname |

**STEP 6: Mapping of Multi-Valued Attributes**

For each multivalued attributes A, create a new relation R. This relation R will

Include an attribute corresponding to A, plus the primary key attribute K-as a

foreign key in R of the relation that represents the entity type of relationship

type that has A as an attribute.The Primary Key of R is the combination of A

and K. If the multivalued attribute is composite, we include its simple

components

**CONTACT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **conid** | name | message | email | phno |

**DETAIL**

|  |  |
| --- | --- |
| **conid** | phno |

**FK**

**STEP 7: Mapping of N-Ary Relationship Types**

For each n-ary relationship type R, where n>2 create a new relationship S to

Represent R. λ include as foreign key attributes in S the primary keys of the

relations that represent the participating entity types.λ also includes any simple

attributes of the n-ary relationship type (or simple components of composite

attributes) as attributes of S. There is **no** N-Ary relationship.

**USERS**

|  |  |  |
| --- | --- | --- |
| **userid** | username | password |

**APPOINTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Bookid** | email | fname | lname |

**BOOKS**

|  |  |
| --- | --- |
| **userid** | **bookid** |

**FK FK**

**PAYMENT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **payid** | **userid** | cardtype | choldername | cardno | expdate | cvv | amount |

**CONTACT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **conid** | name | message | email | phno |

**DETAIL**

|  |  |
| --- | --- |
| **conid** | phno |

**FK**

**FEEDBACK**

|  |  |  |  |
| --- | --- | --- | --- |
| **userid** | message | name | email |

**FK**