IT 214 DBMS

Lab 7(b)

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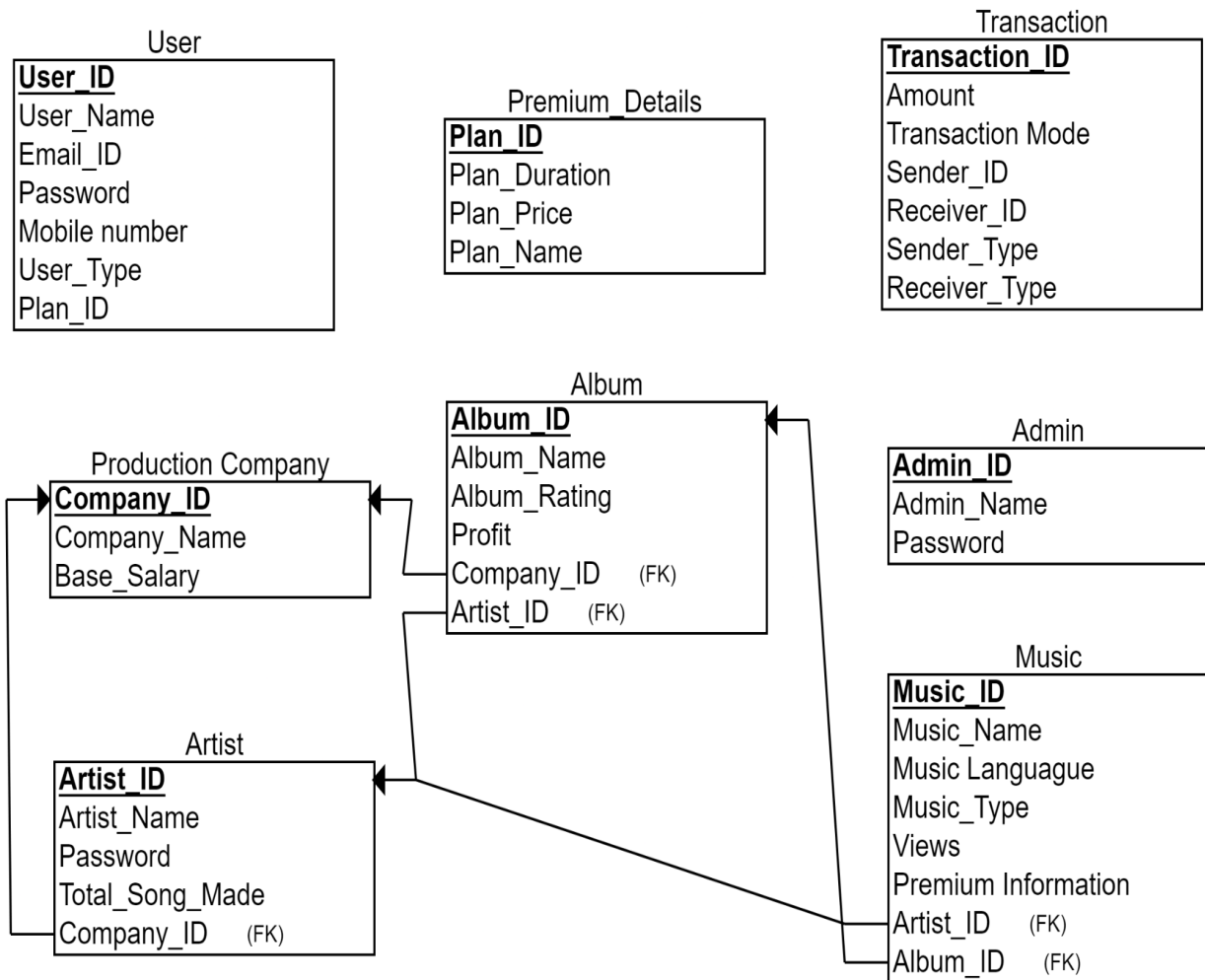
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26 Oct, 2021

Mapping ER Model to Relational Model

1)

User

User_ID
User_Name
Email_ID
Password
Mobile number
User_Type
Plan_ID

Premium_Details

Plan_ID
Plan_Duration
Plan_Price
Plan_Name

Transaction

Transaction_ID
Amount
Transaction Mode
Sender_ID
Receiver_ID
Sender_Type
Receiver_Type

Album

Album_ID
Album_Name
Album_Rating
Profit
Company_ID   (FK)
Artist_ID   (FK)

Production Company

Company_ID
Company_Name
Base_Salary

Admin

Admin_ID
Admin_Name
Password

Music

Music_ID
Music_Name
Music Languague
Music_Type
Views
Premium Information
Artist_ID   (FK)
Album_ID   (FK)

Artist

Artist_ID
Artist_Name
Password
Total_Song_Made
Company_ID   (FK)

Schema of Relation

1. **User** (***User ID***, User Name, Password, Email ID, Mobile Number, Plan ID, User Type)

2. **Music** (***Music ID***, Music Name, Music Language, Premium Information, Views,Likes, Music Type, Artist ID, Album ID)

3. **Artist** (***Artist ID***, Artist Name, Password, Total song made, Company ID)

4. **Album** (***Album ID***, Album Name, Album rating, Profit, Artist ID, Company ID)

5. **Production Compnay** (***Company ID***, Company Name, Base Salary)

6. **Admin** (***Admin ID***, Admin Name, Password)

7. **Plan** (***Plan ID***, Plan Name, Plan Duration, Plan Price, User ID)

8. **Transaction** (***Transaction ID***, Transaction Mode, Sender ID, Receiver ID, Sender Type, Receiver Type)

DDL Scripts

```sql
CREATE TABLE "User" (
  "User_ID" BIGINT NOT NULL,
  "User_Name" VARCHAR(100) NOT NULL,
  "Password" VARCHAR(128) NOT NULL,
  "Email_ID" VARCHAR(100) NOT NULL,
  "Mobile_Number" CHAR(10) NOT NULL,
  "Plan_ID" INT NOT NULL,
  "User_Type" VARCHAR(60) NOT NULL,
  PRIMARY KEY ("User_ID"),
  FOREIGN KEY ("Plan_ID") REFERENCES
"Premium_Details"("Plan_ID")
);


CREATE TABLE "Production_Company"
(
  "Company_ID" BIGINT NOT NULL,
  "Company_Name" VARCHAR(100) NOT NULL,
  "Base_salary" BIGINT NOT NULL,
  PRIMARY KEY ("Company_ID")
);

CREATE TABLE "Admin"
(
  "Admin_ID" BIGINT NOT NULL,
  "Admin_Name" VARCHAR(100) NOT NULL,
  "Password" VARCHAR(128) NOT NULL,
  PRIMARY KEY ("Admin_ID")
);
```

```sql
CREATE TABLE "Premium_Details"
(
  "Plan_ID" BIGINT NOT NULL,
  "Plan_Name" VARCHAR(100) NOT NULL,
  "Plan_Duration" INT NOT NULL,
  "Plan_Price" INT NOT NULL,
  PRIMARY KEY ("Plan_ID")
);

CREATE TABLE "Artist"
(
  "Artist_ID" BIGINT NOT NULL,
  "Artist_Name" VARCHAR(100) NOT NULL,
  "Password" VARCHAR(128) NOT NULL,
  "Total_Song_Made" INT NOT NULL,
  "Company_ID" BIGINT NOT NULL,
  PRIMARY KEY ("Artist_ID"),
  FOREIGN KEY ("Company_ID") REFERENCES
"Production_Company"("Company_ID")
);

CREATE TABLE "Album"
(
  "Album_ID" BIGINT NOT NULL,
  "Album_Name" VARCHAR(100) NOT NULL,
  "Album_Rating" BIGINT NOT NULL,
  "Profit" BIGINT NOT NULL,
  "Artist_ID" BIGINT NOT NULL,
  "Company_ID" BIGINT NOT NULL,
  PRIMARY KEY ("Album_ID"),
  FOREIGN KEY ("Artist_ID") REFERENCES
"Artist"("Artist_ID"),
```

```sql
    FOREIGN KEY ("Company_ID") REFERENCES
"Production_Company"("Company_ID")
);

CREATE TABLE "Music"
(
  "Music_ID" BIGINT NOT NULL,
  "Music_Name" VARCHAR(100) NOT NULL,
  "Music_Language" VARCHAR(100) NOT NULL,
  "Premium_Information" BOOLEAN NOT NULL,
  "Views" BIGINT NOT NULL,
  "Likes" BIGINT NOT NULL,
  "Music_Type" VARCHAR(60) NOT NULL,
  "Artist_ID" BIGINT NOT NULL,
  "Album_ID" BIGINT NOT NULL,
  PRIMARY KEY ("Music_ID"),
  FOREIGN KEY ("Artist_ID") REFERENCES
"Artist"("Artist_ID"),
  FOREIGN KEY ("Album_ID") REFERENCES "Album"("Album_ID")
);

CREATE TABLE "Transaction"
(
  "Transaction_ID" BIGINT NOT NULL,
  "Transaction_Mode" VARCHAR(20) NOT NULL,
  "Sender_ID" BIGINT NOT NULL,
  "Receiver_ID" BIGINT NOT NULL,
  "Sender_Type" VARCHAR(20) NOT NULL,
  "Receiver_Type" VARCHAR(20) NOT NULL,
  PRIMARY KEY ("Transaction_ID")
);
```