

IT 214 DBMS

Lab 7(b)

Prepared by: Group S6_T9

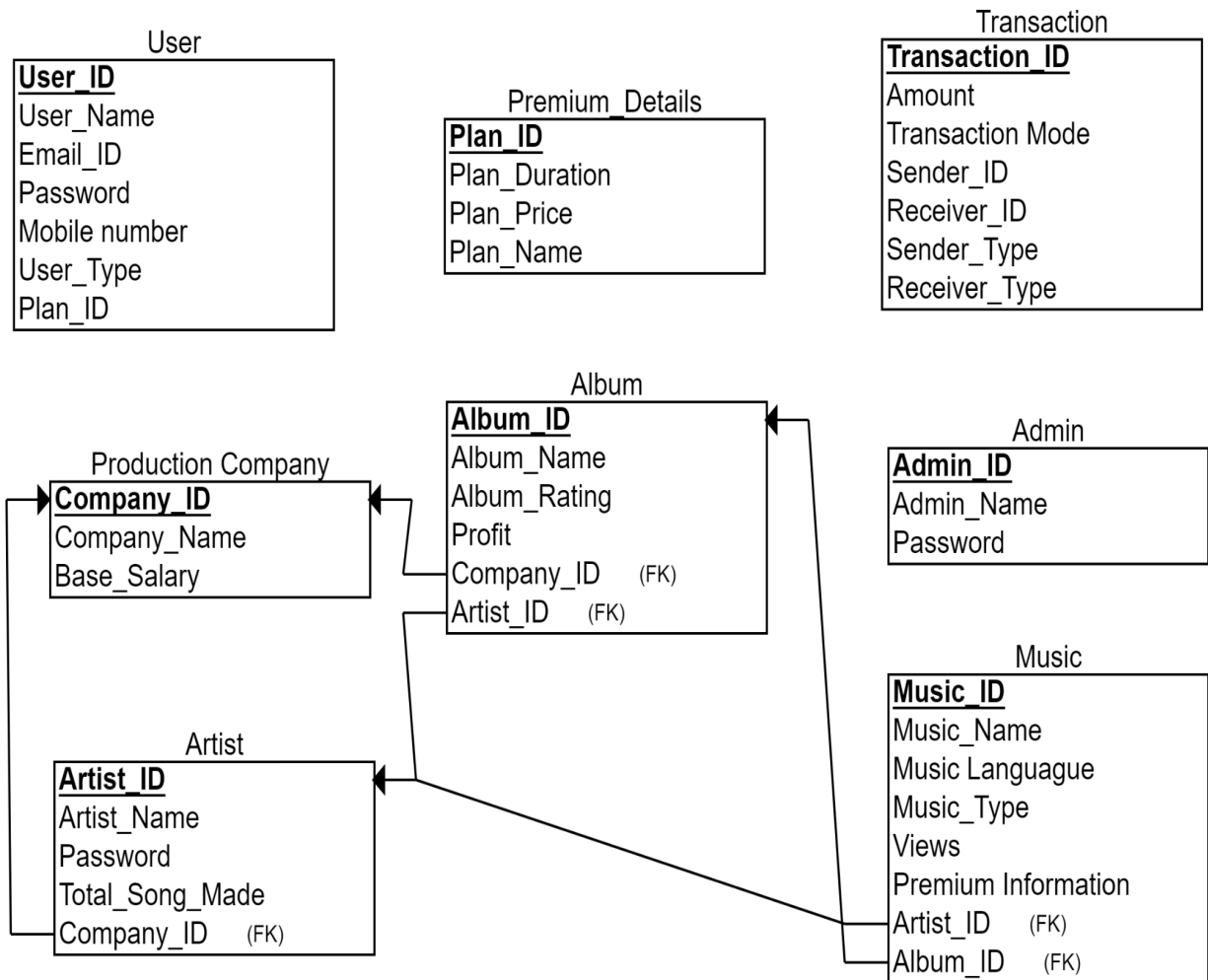
ID	Name
201901076	Utsav Ladani
201901090	Pandar Mayur
201901131	Bhavya Solanki
201901304	Dev Joshi

**Dhirubhai Ambani Institute of Information and Communication
Technology**

26 Oct, 2021

Mapping ER Model to Relational Model

1)



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

DDL Scripts

```
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")  
);
```

```
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"),
```

```
    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,
    "Price" BIGINT NOT NULL,

    PRIMARY KEY ("Transaction_ID")
);
```