Bank Management System

Database Design

Entities of Bank Management System

- 1. Accountant
- 2. Account
- 3. UserInfo

Accountant

• Attributes:

FirstName

LastName

Email

Password

• Relationship

One Accountant Adds More Than One User (one to many).

User

• Attributes:

UID (Primary Key)

FirstName

LastName

Email

Password

Mobile

Address

• Relationship

Many Users have many Accounts (many to many)

Account

• Attributes:

AccountNumber (Primary Key)
Balance
UID (Foreign Key)

• Relationship

Many Accounts are managed by one Accountant (many to one)

Table Structure

1.) Accountant

mysql> desc a	ccountant							
Field	Туре	Null	Кеу	Default	Extra			
LastName Email	varchar(255) varchar(255) varchar(255) varchar(255)	NO NO		NULL NULL NULL NULL				
4 rows in set (0.00 sec)								

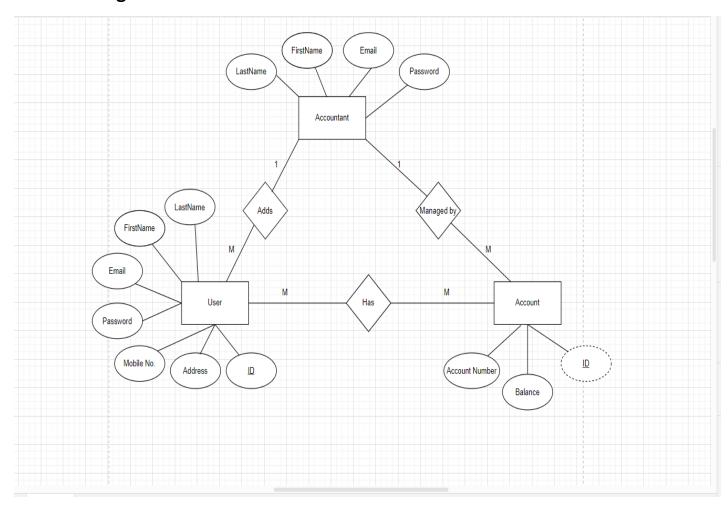
2.) UserInfo

```
mysql> Desc userinfo;
 Field
             | Type
                            | Null | Key | Default | Extra
  UID
              varchar(50)
                              NO
                                     PRI
                                            NULL
  FirstName
              varchar(255)
                              NO
                                            NULL
              varchar(255)
                              NO
  LastName
                                            NULL
              varchar(255)
                              NO
  Email
                                            NULL
              varchar(255)
                              NO
  Password
                                            NULL
  Mobile
              varchar(100)
                              NO
                                            NULL
              varchar(255)
  Address
                              NO
                                            NULL
7 rows in set (0.00 sec)
```

3.) Account

mysql> Desc account;								
Field	Туре	Null	Кеу	Default	Extra			
•	_	YES	İ	NULL	auto_increment 			
3 rows in set (0	.04 sec)				·			

ER Diagram



Creating the tables for each entity

```
Create table Accountant (
FirstName varchar(255) not null,
LastName varchar(255) not null,
Email varchar(255) not null,
Password varchar(255) not null
);
```

Create table UserInfo (
UID varchar(50) primary key,
FirstName varchar(255) not null,
LastName varchar(255) not null,
Email varchar(255) not null,
Password varchar(255) not null,
Mobile varchar(100) not null,
Address varchar(255) not null
);

Create table Account (
AccountNumber bigint primary key auto_increment,
Balance int,
Id varchar(50),
foreign key(Id) references UserInfo(UID) on delete cascade);
);