**One to One relationship**

1. **With shared primary key**
2. **With PK and FK**

One has only One Profile

**Users UserProfile**

Users has only one PanCard Details

**Users PanCard**

**Users -🡪Table**

Uid int primary key auto\_increment Primary key

Username varchar(30) not null

**UserProfile -🡪Table**

User\_id primary key, primary key as well as it behave like foreign key connect primary key of users table.

firstName varchar(30) not null

lastName varchar(30)

age int

dob date

foreign key(user\_id) references users(uid)

create table users(

user\_id int primary key auto\_increment,

username varchar(30) not null

);

insert into users(username) values('Raj'); 1

insert into users(username) values('Ajay'); 2

insert into users(username) values('Vijay'); 3

insert into users(username) values('Mahesh'); 4

select \* from users;

create table user\_profile(

u\_id int primary key,

first\_name varchar(30) not null,

last\_name varchar(30),

age int,

dob date,

foreign key(u\_id) references users(user\_id)

);

desc users;

desc user\_profile;

insert into

user\_profile(u\_id,first\_name,last\_name,age,dob)

values(1,'Raj','Kumar',23,'1998-10-05'); 1

insert into

user\_profile(u\_id,first\_name,last\_name,age,dob)

values(200,'Ajay','Patel',24,'1996-06-20'); 2

3

4

In User\_profile table u\_id is pk as wll as fk. This column allow only those value which present in user table and those value only one time because it is a primary key and allow only those value because it is a foreign key.

**One to One relationship without shared PK**

Person --🡪 table

Person\_id 🡪 int primary key

Name -🡪 varchar(30) not null

Dob ---🡪date

Passport --🡪 table

Passport\_id 🡪 int primary key,

Person\_id 🡪 int FK

Passport\_number🡪 varchar(30)

Issue\_date🡪date

Expiry\_date 🡪date