(F)

Customer (Name: text, Andhor No: text, Addrew: text,
Email: text)

Account (Account NO: text, Description: text, Balance: real, Start bate: timestamp, Type: enum (savings, current, cheque, term-deposit))

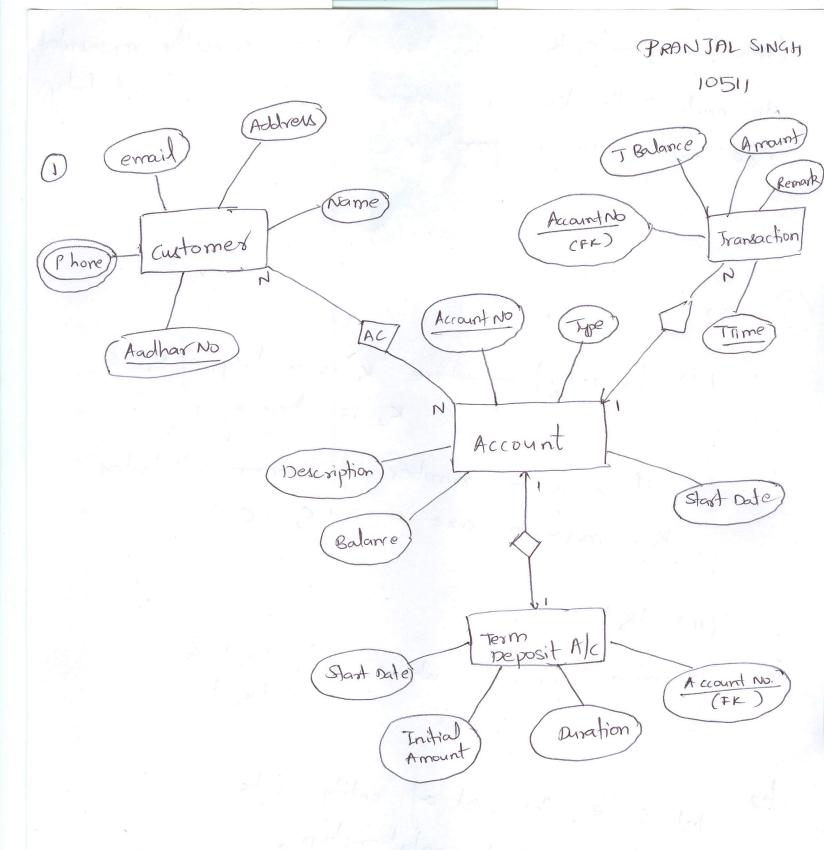
CA (Aadhar No: text, Account No: text)

(FK)

Phone Numbers (AdharNo (KK): text, Phone: text)

Transaction (TBalance: real, Remark: text, Amount: real,
Time: Limestamp, Account NO (KK): text)

Term Deposit AC (Account No (FK): text, Duration: Interval,
Tritial Amount: real, Start Date: timestamp)



3) For part (a)
we used a N-1 mother child relationship to
ensure that

For part (b)

We will have to muhe the relationship between
baby and birth as N, 1 respectively

(Baby" — Birth) to have twins norrectly represented.

As each Birth has a unique mother, so each buby also how a unique mother.

(a)

(i)  $|K, UK_2|$  - where  $K_1$  is a key of  $E_1$   $K_2$  is key of  $E_2$ if C is the number of nommon attributes

then minimum  $K_1 = C_1 + C_2 - C_1$ 

 $(ii) \quad |K| = C,$ 

(iii) min (c,,c,) where c, = 1 K, 1 & c = 1 K, 1 &

let s be the set of entity sets

E; having N-1 relationship;

then smallest poesible key is

U key (E; ) = U { K; }

E; GS

if S is empty then
the size = minimum of all Ikil

## Pros Cons

to the real world data. A both is an important entity in a hospital database. It also allows up to add nonstraints easily I in a natural way.

Whole in (a), we have to add reparation relations.

But (1) requires us to have various referential integrity constraints.

sprimary hey in each of the enthies is the Tol. e.g.
for enting set belief , it is Ruby-id, Ruby-id, Rodorfor set birther the primary hey is (Buby-id, Rodorid, purse-id)

PK for tirther are taby-id, dador-id, musse-id for
mathem id.

There is no need to heep mother-id in the p-hey
as the relation blw balues of mathem is already

In the Penr-way diagram, bith sequires that all mother, buty do dos & muse to present But in timony sepsecultion total pasticipation of biths let is required (sedundary). But the implementation of timony relationship is easier than 4-way relationship.