

The composite primary key for this table is?

MEMBER_NUM, INVITE_NUM DINNER_CODE, ENTRÉE_CODE and DESERT_CODE.

There we two types of dependamies occur in this table:

Partial Dependency

If the table contains composite primary key, then each colourn of the table that is not the part of the preimary key mest depend apon the entire composite key for it's existance. Partial Dependancy for the above table is given below:-

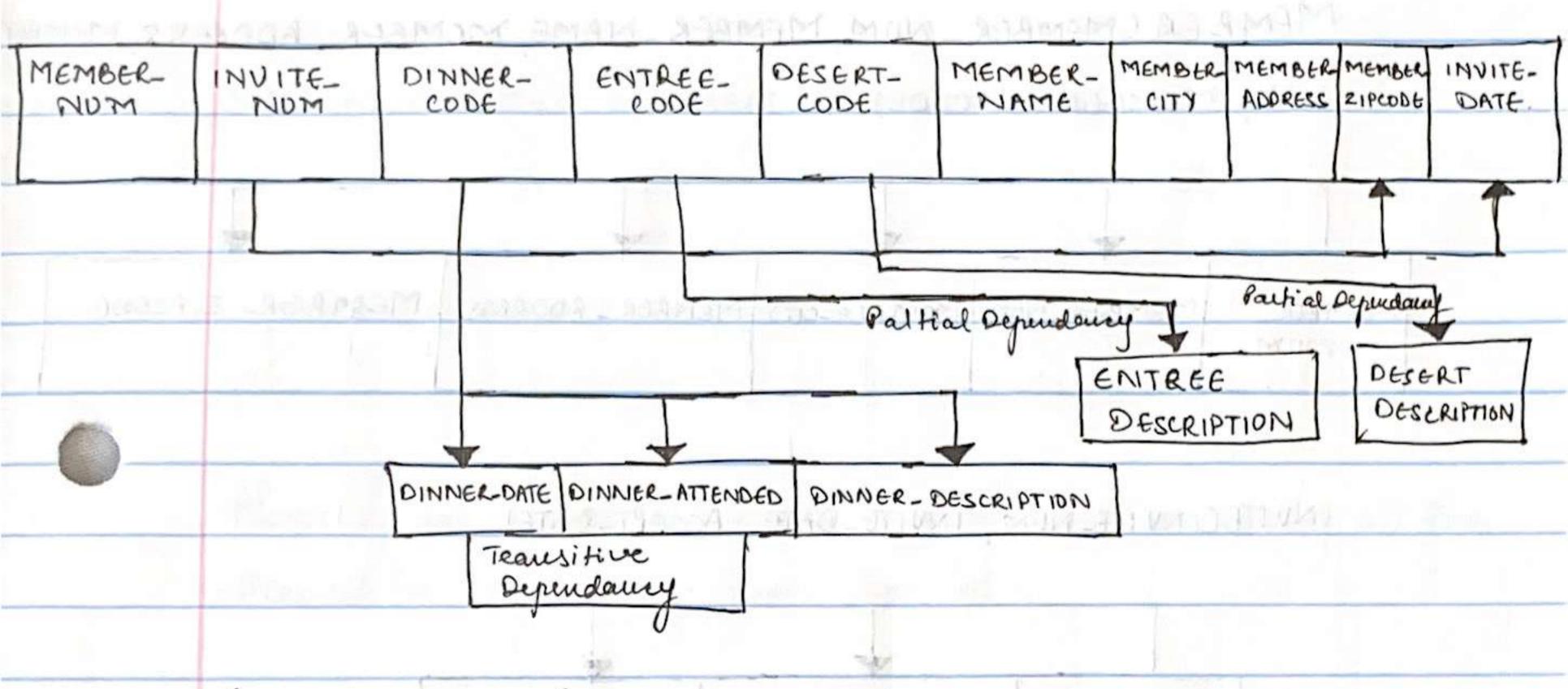
- In above table MEMBER_NAME, MEMBER_ADDRESS, MEMBER_ CITY, MEMBER-ZIPLODE is partially dependant on MEMBER-NUM.
- INVITE-DATE, ACCEPT_DATE is partially dependent on INVITE_NUMEDINNER_DATE, DINNER_ATTENDED, DINNER_DESCRIPTION is partially = dependant on DINNER CODE
 - ENTRÉE_DESCRIPTION is positially dependant on Entréé_code
 - · DESERT DESCRIPTION is partially dependant on DESERT_CODE.

Gransifive Dependancy

A teansition Dependancy is the functional dependancy of one

non-prime attribute on another non prime attribute, which occur in the relation having three or more attributes.

DINNER ATTENDED has teausitive dependancy on the DINNER-DATE.



Above Tigwe Shows all the dependencies as marked along the relationship schema.

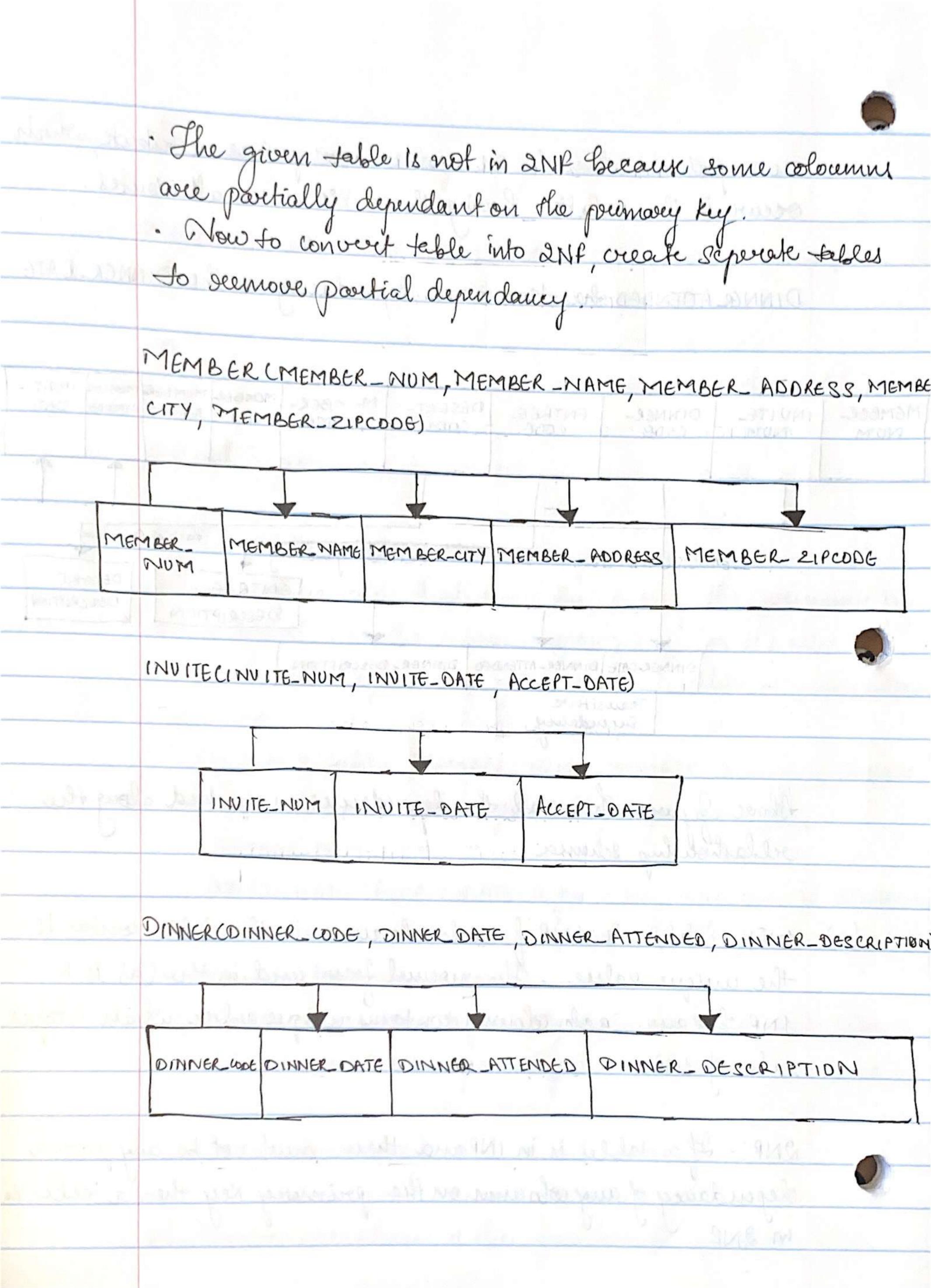
(b) INF: - A table is INF if each coloreum in the table containts

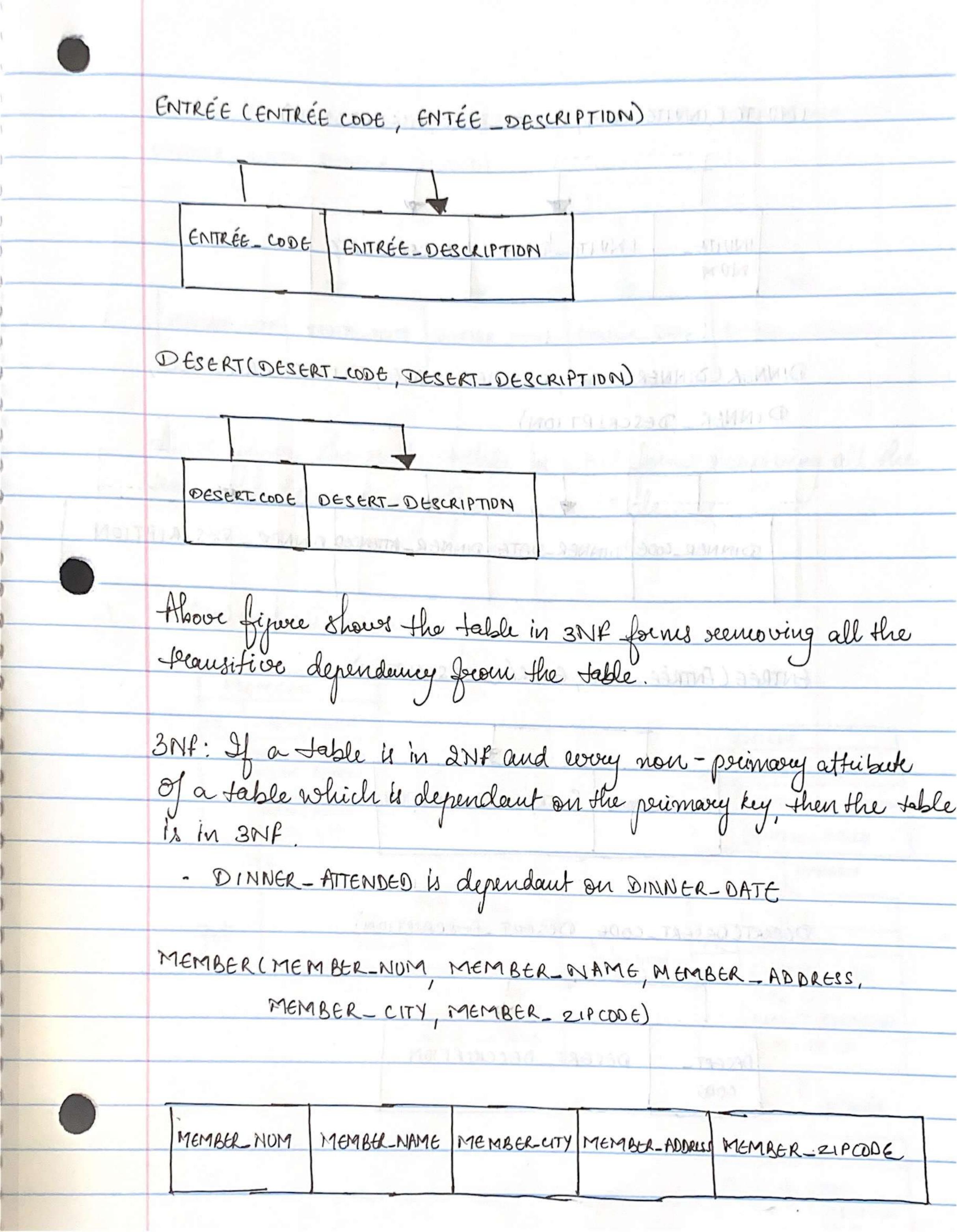
the unique value. The normal form used in the (a) & In

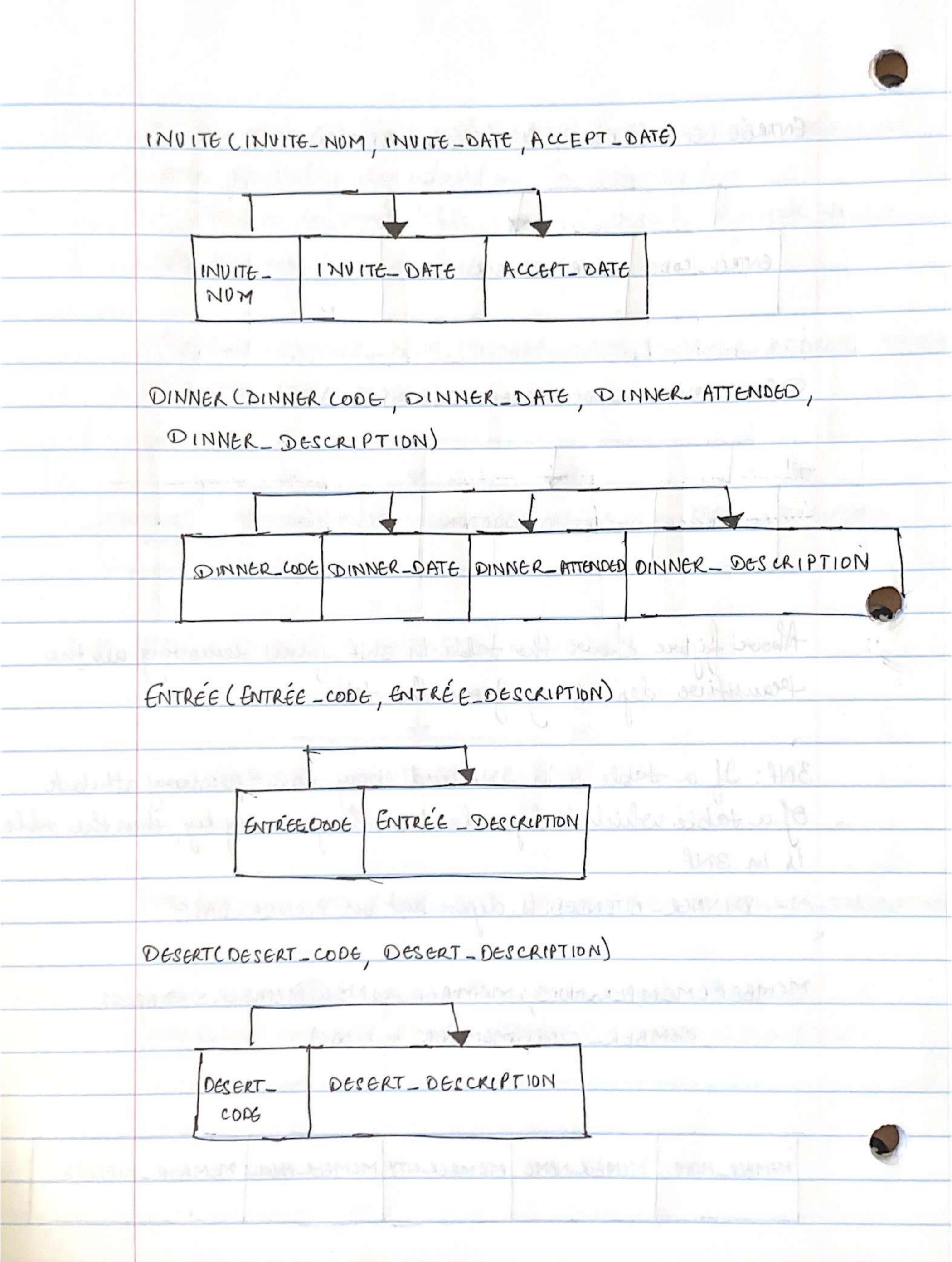
INF becaux Cach colorum contains unique value, which satisfies

sule of INF.

2Nf: - If a fable is in INFand three must not be any partial dependancy of any colourns on the primary key then a table is in 2Nf.







Again Salary based employee is syper class of Sales buployee representing partial participation. Hom the above notation d'ocepsessents distinct employee of type Salavy, Hourly and Conteact. O'represent Overlapped means same object is aggregating two specific outcomes which we overlapped. They are salary band and Sale based wage cuplyones 4. Brow's Joot ERD!employee-trans employee-Type PK Rugloyee-1D PK Euployee 10 H+ falus peomoted-Date H nechauic - ID nuclianic-10 cowur date funcination-Date Course - Type course - Certification cower - Performent "E' AV" Airfeaux Maintaineck Avionics Maintaines Engine Maintainer PK Euployee 10 Euployce - 13 Eugloyee ID

From the above diagream all mechanics are FRC employees. Not all employees are mechanics. So mechanics are derived from employee.

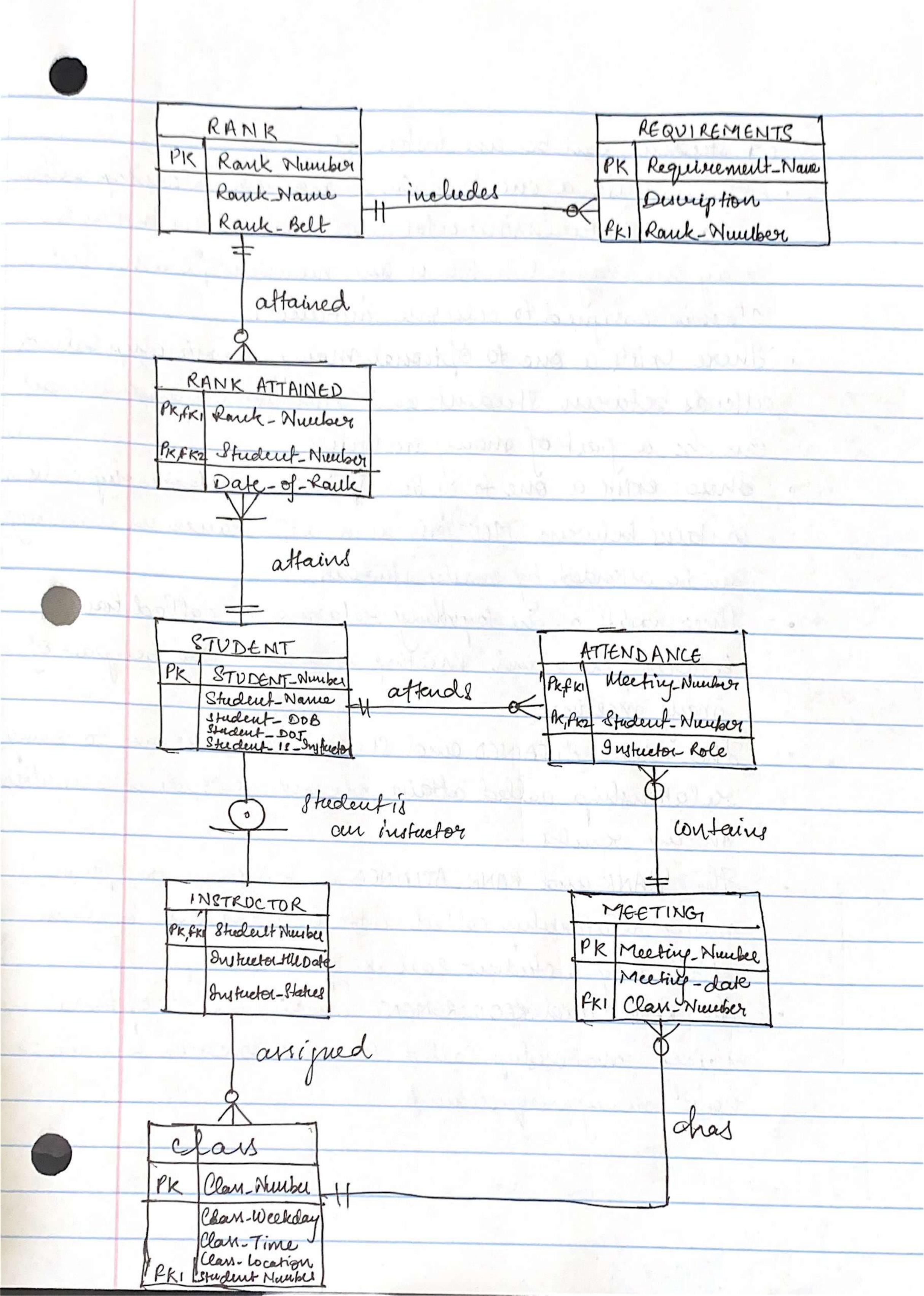
There are theree types of mechanics such as engine main-taineuer, airferance maintaineure y avionics maintaineure

All mechanics falses course that is to be taken to also each mechanics has history. So it à represents a one to many relationship.

The entities of the Martial Art's R U's (MARU) data band are as Jollows!

- Student
- · Instructor
- · Clars
- · Meeting
- · Rank afferined
- · Requirements · Attendance.

Crow foot ERD of Martial Arts R Ve it as!



: A student com be en instructor. . There exists a one to optional many scalationship called assigned between instructor and class as an instructor may be assigned to teach any number of classes but a Clais is assigned to only one instructor. . There exists a one to officual many reclationship called cettends between student and reftendance as a student Can be a pact of meny meetings. · There exists a one to officual many gelationship called Contains between MEETING and affendance as a meeting Com se affended sy meny students. there exists a one to produce relationship called has between Clay and Meeting as a class can be part of many meetings. The RANK_ ATTAINED sund Student confains one to many relationship called affain becaux a student can affain meny seaules. The RANK and RANK_ATTAINED confains one to officenal many relationship called affaired because a seaule attained by a student can be of different types.

The RANGE and REQUIREMENT contains one to optional money relationship Called Includes Brearex à sante con have meny requilements.