

* Mapping ER or ERR diagram into relational model:

RULES:

1. Entity:

1. Strong entity - create separate table
2. Weak entity - create separate table, primary key =
PK of strong + any attribute of (W/E)

2. Attributes:

1. Composite attribute - no ST (expand composite attribute in table)

2. Multivalued Att - PK (MA)
= PK (Entity to which it belongs)
+ MA (itself)

CST -

create separate table

PK - primary key

SE - Strong

WE - weak

3. Descriptive Att - S.T

PK (DA) \Rightarrow PK (of both the tables)
+ DA itself

MA - multivalued
DA - descriptive

3. Relationship:

1. 1:1 relation, 1:M, M:1 - no CST, 1's PK is added in m's table

2. m:n = CST, PK (m.n) = PK of both the tables

4. Inheritance: (generalisation / specialisation)

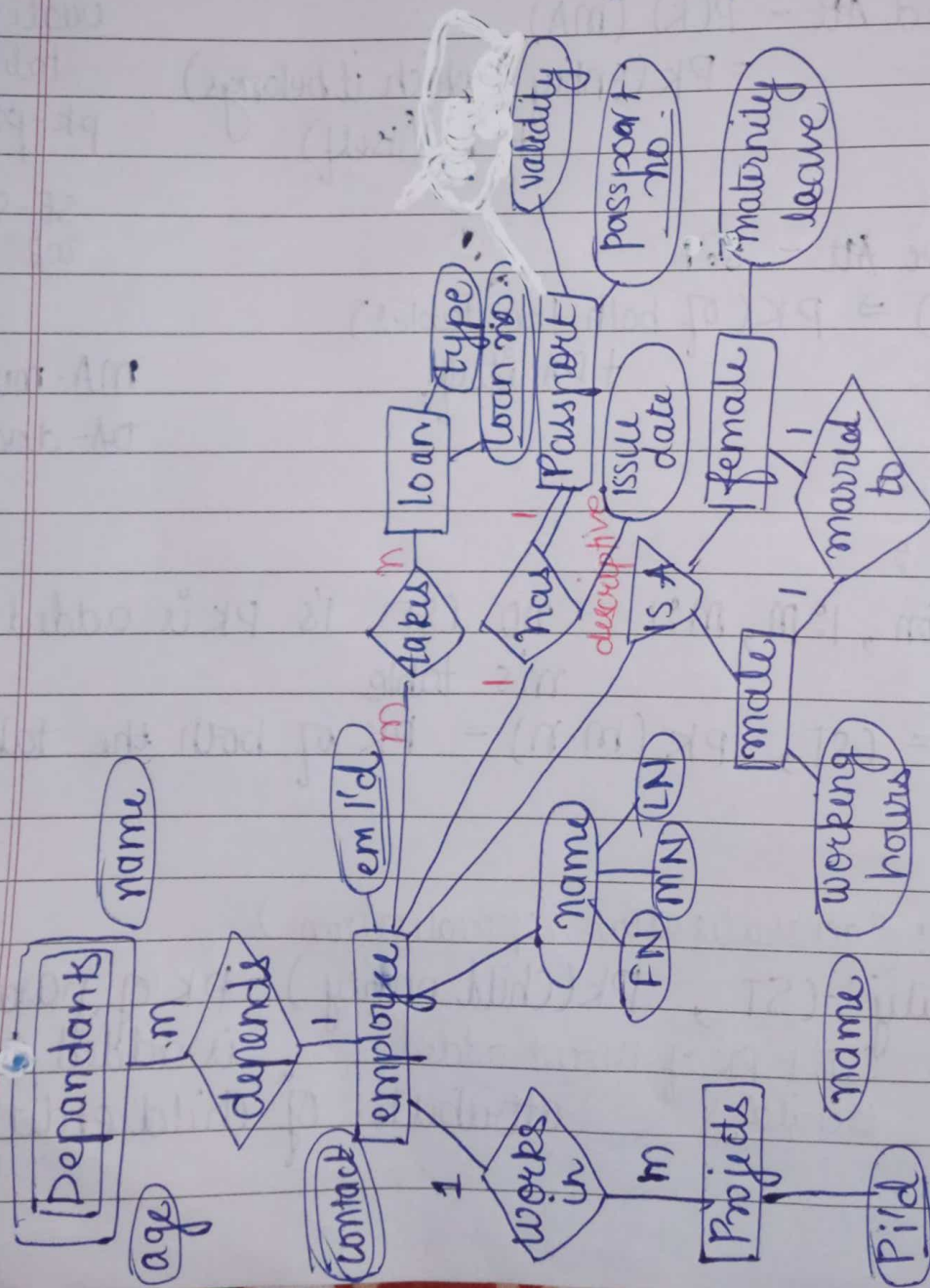
Child entity - (ST, PK (child entity) - PK of parent entity is added to any attribute of child entity.)
(CST + PK of Parent added to child)

*** NOTE:**

If descriptive attribute is present in diagram, separate table is always created irrespective of type of cardinality exist betⁿ entities.

∴ Descriptive attribute:

The attribute which is associated with the relationship.



dependants (emp i'd, age, name)

employee (emp i'd, fname, lname, mname)

emp-contact no. (emp i'd, contact no.)

project (project i'd, name, emp i'd)

loan (loan no., type)

takes (emp i'd, loan no.)

male (emp i'd, working hours, maternity leave)

female (emp i'd, maternity leave)

passport (passport no., validity)

pass-issue date (emp i'd, passport no., issue date)

foreign key