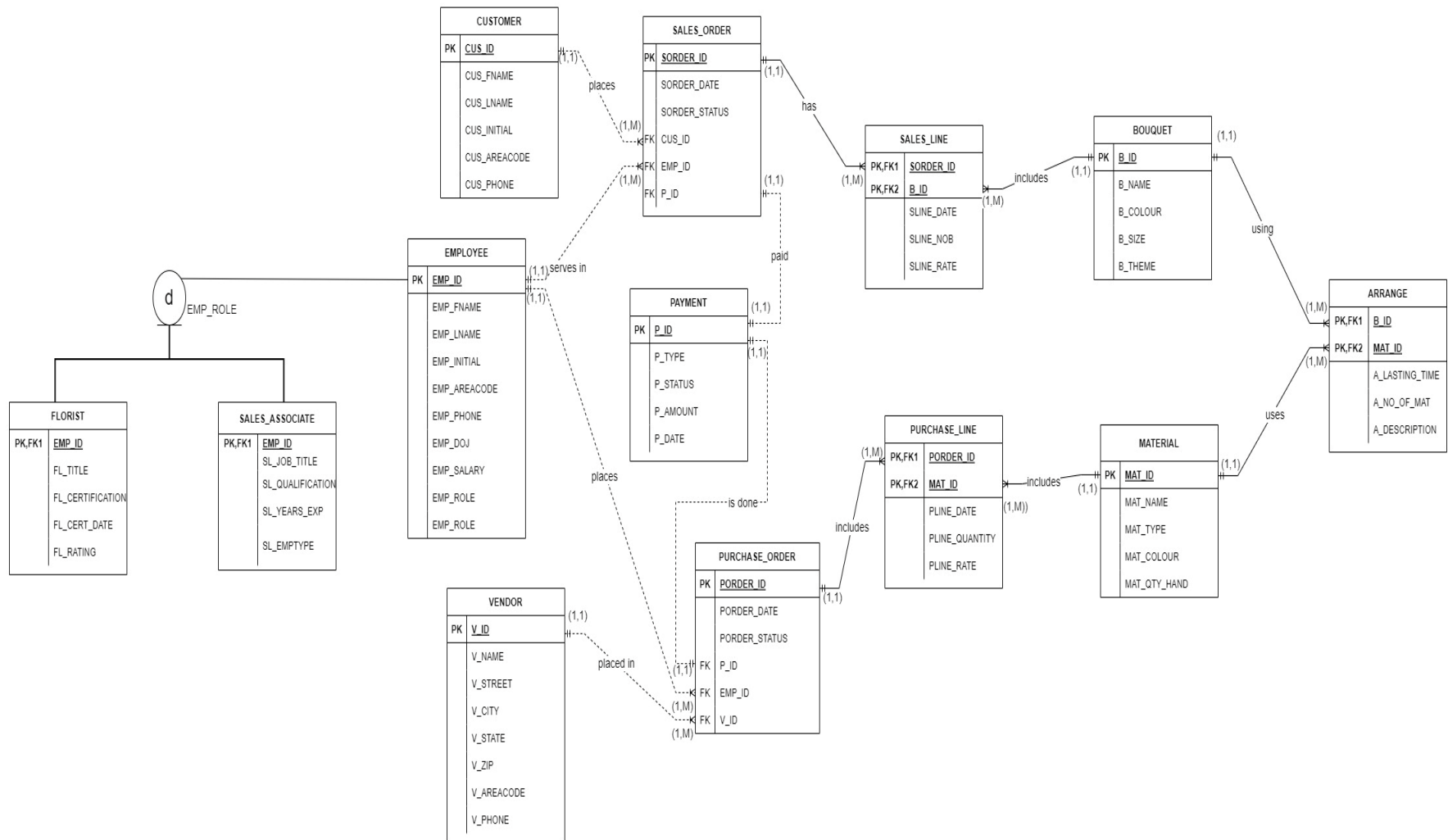


THE ENTITY RELATIONSHIP DIAGRAM

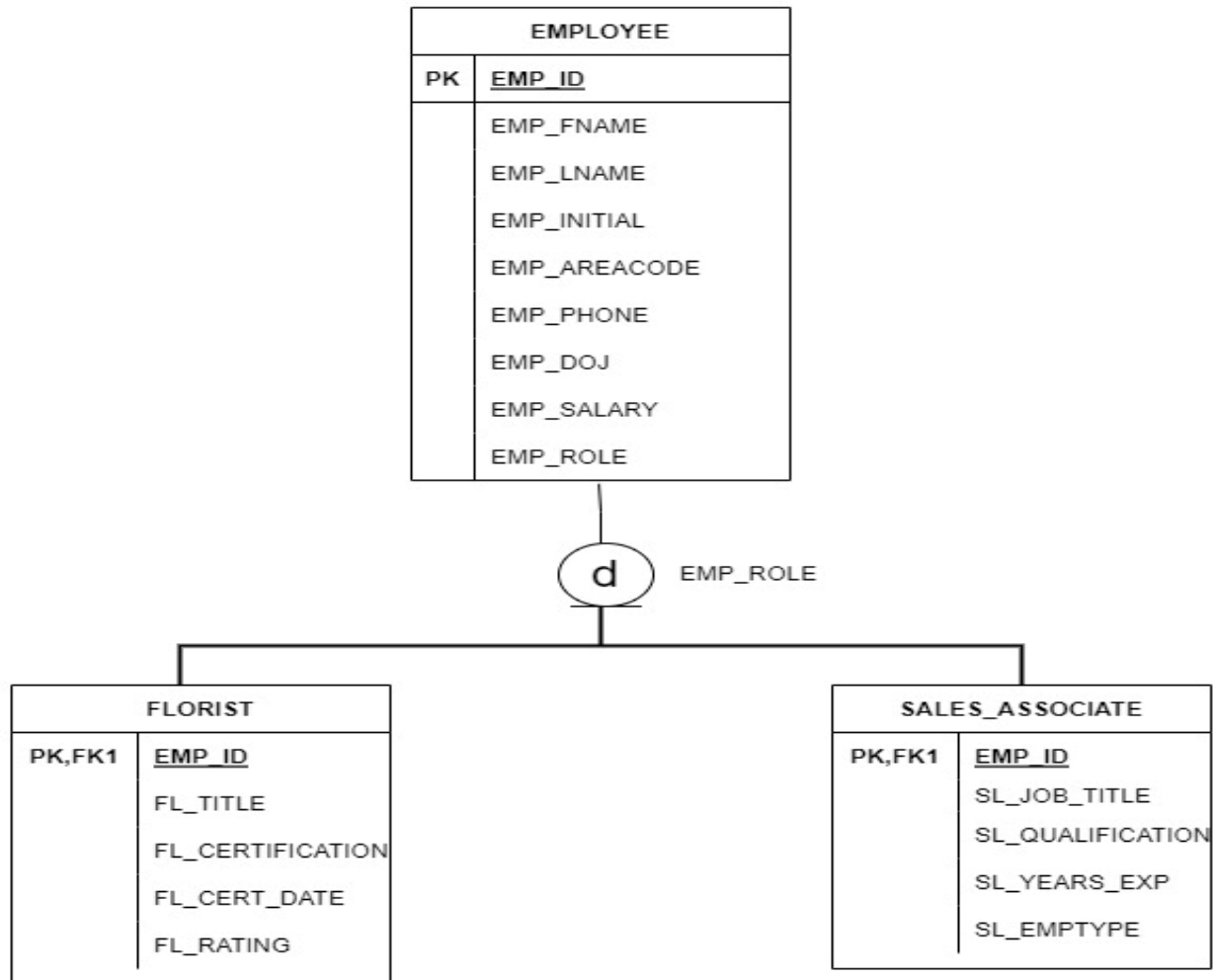
1.RELATIONAL SCHEMAS:

- CUSTOMER (**CUS_ID**, CUS_FNAME, CUS_LNAME, CUS_INITIAL, CUS_AREACODE, CUS_PHONE)
- EMPLOYEE (**EMP_ID**, EMP_FNAME, EMP_LNAME, EMP_INITIAL, EMP_AREACODE, EMP_PHONE, EMP_DOJ, EMP_SALARY, EMP_ROLE)
- FLORIST (**EMP_ID**, FL_TITLE, FL_CERTIFICATION, FL_CERT_DATE, FL_RATING)
- SALES_ASSOCIATE (**EMP_ID**, SL_JOB_TITLE, SL_QUALIFICATION, SL_YEARS_EXP, SL_EMPTYYPE)
- PAYMENT (**P_ID**, P_TYPE, P_STATUS, P_AMOUNT, P_DATE)
- SALES_ORDER (**SORDER_ID**, SORDER_DATE, SORDER_STATUS, CUS_ID, EMP_ID, P_ID)
- VENDOR (**V_ID**, V_NAME, V_STREET, V_CITY, V_STATE, V_ZIP, V_AREACODE, V_PHONE,)
- PURCHASE_ORDER (**PORDER_ID**, PORDER_DATE, PORDER_STATUS, EMP_ID, V_ID, P_ID)
- MATERIAL (**MAT_ID**, MAT_NAME, MAT_TYPE, MAT_COLOR, MAT_QTY_HAND)
- PURCHASE_LINE (**PORDER_ID**, **MAT_ID**, PLINE_QUANTITY, PLINE_RATE, PLINE_DATE)
- BOUQUET (**B_ID**, B_NAME, B_COLOR, B_THEME, B_SIZE)
- ARRANGE (**B_ID**, **MAT_ID**, A_LASTING_TIME, A_NO_OF_MAT, A_DESCRIPTION)
- SALES_LINE (**B_ID**, **SORDER_ID**, SLINE_DATE, SLINE_NOB, SLINE_RATE)

2.CROW'S FOOT DIAGRAM OF ALL ENTITIES:



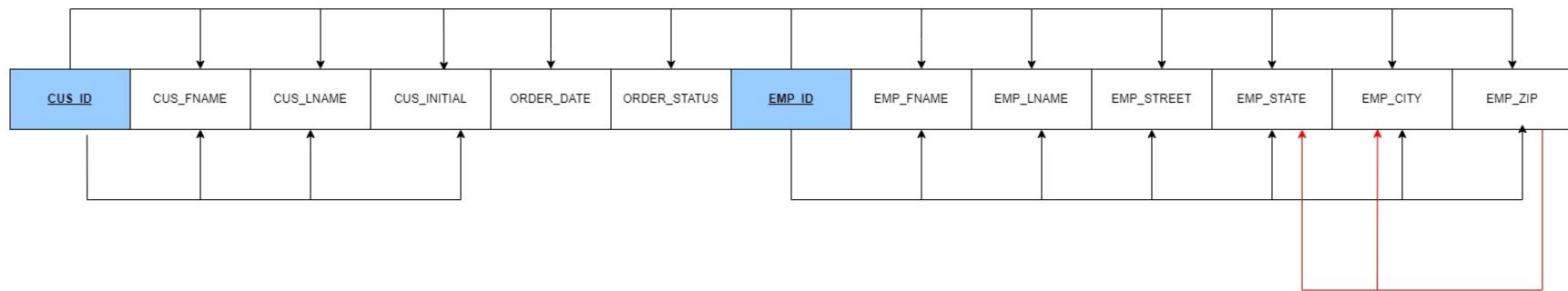
3.CROW'S FOOT DIAGRAM OF A SUBTYPE/SUPERTYPE RELATIONSHIP



4. NORMALIZED TABLE WALK-THROUGH

(Denormalized the existing tables to get a hypothetical table “Customer”).)

First Normal Form (1NF)



Relational Schema:

1NF (**CUS_ID, EMP_ID**, CUS_FNAME, CUS_LNAME, CUS_INITIAL, ORDER_DATE, ORDER_STATUS, EMP_FNAME, EMP_LNAME, EMP_STREET, EMP_CITY, EMP_STATE, EMP_ZIP)

Partial dependencies:

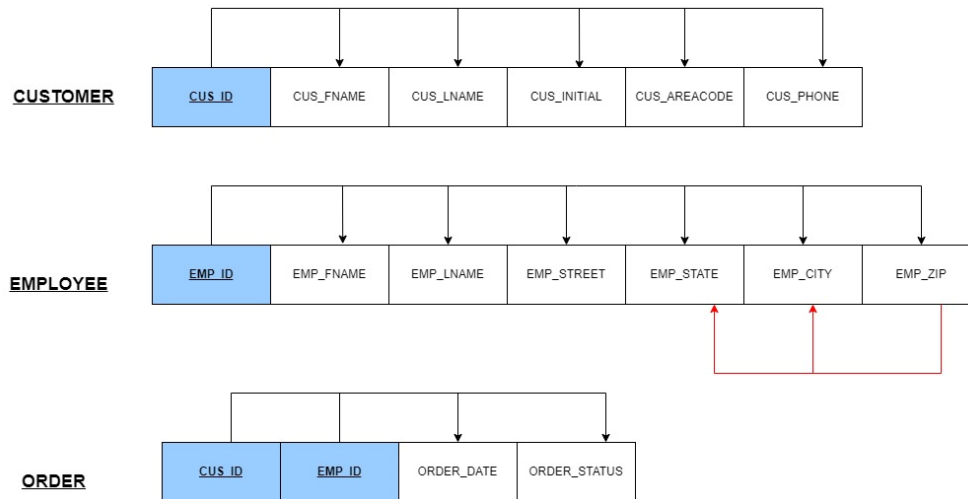
(**CUS_ID** -> CUS_FNAME, CUS_LNAME, CUS_INITIAL)

(**EMP_ID** -> EMP_FNAME, EMP_LNAME, EMP_STREET, EMP_CITY, EMP_STATE, EMP_ZIP)

Transitive Dependencies:

(EMP_ZIP -> EMP_CITY, EMP_STATE)

Second Normal Form (2NF)



Relational Schema:

CUSTOMER (**CUS_ID**→CUS_FNAME, CUS_LNAME, CUS_INITIAL, CUS_AREACODE, CUS_PHONE)

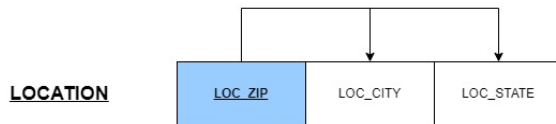
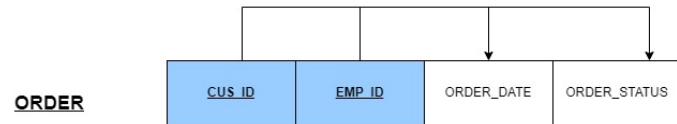
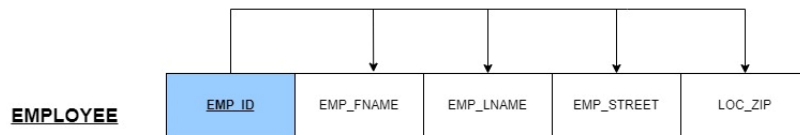
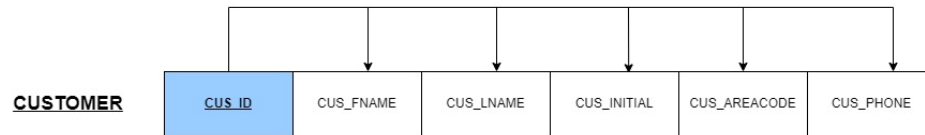
EMPLOYEE (**EMP_ID**→ EMP_FNAME, EMP_LNAME, EMP_STREET, EMP_CITY, EMP_STATE, EMP_ZIP

ORDER (**CUS_ID, EMP_ID**, ORDER_DATE, ORDER_STATUS)

Transitive Dependencies:

(EMP_ZIP → EMP_CITY, EMP_STATE)

Third Normal Form (3NF)



Relational Schema:

CUSTOMER (**CUS_ID**->CUS_FNAME, CUS_LNAME, CUS_INITIAL, CUS_AREACODE, CUS_PHONE)

EMPLOYEE (**EMP_ID**-> EMP_FNAME, EMP_LNAME, EMP_STREET, LOC_ZIP)

ORDER (CUS_ID, EMP_ID, ORDER_DATE, ORDER_STATUS)

LOCATION (LOC ZIP, LOC_CITY, LOC_STATE)