**REDUDANCY REMOVAL THROUGH 1’ST NORMAL FORM:**

All cells of contain atomic values.

**CONVERTING IN 2’ND NORMAL FORM:**

Cells containing more than 1 prime attribute that have partial dependent attributes are split into different tables.

**FUNCTIONAL DEPENDENCIES:**

**CUSTOMER TABLE :**

C\_ID (PRIMARY KEY) . name and contact are dependent.

**SHOPPING CART TABLE:**

C\_ID (FOREIGN KEY OF CUSTOMER TABLE) . name, price and quantity are dependent.

**PRODUCT TABLE:**

PRODUCT ID (PRIMARY KEY) . name, price and image are dependent.

**EMPLOYE LOGIN TABLE:**

ID(PRIMARY KEY) . name, email and contact are dependent.

**CANDIDATE KEYS:**

In cart table C\_ID is candidate key.

In product table PRODUCT ID and PRODUCT NAME are candidate key.

In employee login table EMP\_ID and EMP\_NAME are candidate key.

In customer table C\_ID is candidate key.

**FUNCTIONAL DEPENDENCY AND INNER JOIN IN SEARCHING:**

In customer wise sale tab the C\_ID is the prime attribute whose functional dependents are (PRODUCT NAME , PRODUCT QUANTITY , PRODUCT PRICE , C\_ID , C\_NAME AND C\_CONTACT) and the customer table and shopping cart table are inner joined by C\_ID.