Project – Part 1

(0,n)

(1,n)

HAS

CUSTOMER

ISSUES

HEADQUATER

(1,n)

(1,1)

ORDER NUM

STORE

SALARY

NAME

NAME

ADDRESS

EMP ID

PHONE NUMBER

HAS

(1,5)

(1,2)

HANDLES

EMPLOYEE

ORDER

DATE

(1,n)

AMOUNT

CONSISTS

ADDRESS

DOB

CLASSIFICATION

SIZE

COST

TYPE NUMBER

INCLUDES

PAPER TYPE

BRANCH STORE NAME

SUB ORDER

ADDRESS

QUANTITY

ACTUAL DATE

REQD DATE

SHIPPED

(0,n)

(1,n)

PHONE NUMBER

WEIGHT

BRANCH

(1,n)

(0,n)

(1,1)

(1,n)

BRANCH NUMBER

Entity Types :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Description | Attribute | | | |
| Name | Description | Multivalued | Derived |
| HEADQUATER |  | Name |  | N | N |
| Address |  | N | N |
| Phone |  | N | N |
| BRANCH | This is a weak entity | Branch | Branch Number is combined with Headquarters Key name | N | N |
| Address |  | N | N |
| Phone |  | N | N |
| ORDER |  | Order Number | Order No | N | N |
| No of Employees |  | N | Y |
| Date |  | N | N |
| Store |  | N | N |
| Amount |  | N | N |
| SUBORDER | This is a weak entity | Quantity | Combined with order number | N | N |
| Required date |  | N | N |
| Actual date |  | N | N |
| EMPLOYEE |  | Employee ID | Employee ID | N | N |
| DOB | Date Of Birth | N | N |
| Name |  | N | N |
| Salary |  | N | N |
| Classification |  | N | N |
| PAPER |  | Type |  | N | N |
| Weight |  | N | N |
| Size |  | N | N |
| Cost |  | N | N |

Relationship Types :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Participating Entity Types | | Attribute |
| Name | Structural Constraint |
| HAS |  | Customer | (1,n) |  |
| HAS |  | Headquarter | (1,n) |  |
| Branch | (1,1) |
| ISSUES |  | Headquarter | (0,n) |  |
| Order | (1,n) |
| HANDLES |  | Order | (1,2) | Number of employees |
| Employee | (1,5) |
| CONSISTS |  | Order | (1,n) |  |
| Sub Order | (1,n) |
| SHIPPED TO |  | Sub Order | (1,n) | Branch name |
| Branch | (0,n) |
| INCLUDES |  | Sub Order | (1,n) | Quantity |
| Paper | (0,n) |