**Business Rules:**

1.  Each managing Director maintain many branch's, many branches under one MD
2.  Each Branch maintain many department, Many department under each Branch
3.  Each department have many employee, many employee maintain each department
4.  Each employee can do many employee work, every employee also can do each work.
5.  Each department can made many transection, every transection can make by each department.
6.  Each department can handle many customers, many customers has each department.
7.  One customer can create many order , Each order can make by each customer
8.  Each order has many invoices, each customer made many invoices.
9.  One supplier supplied many item of furniture, Many furniture was supplied by each supplier.
10. Each invoices contains many type of furniture, many furniture's information contains each invoice.
11. One supplier can make many transection online and conventional, many transaction also can made by each supplier.
12. Each customer can make many transections, many transection also can made by one customer.
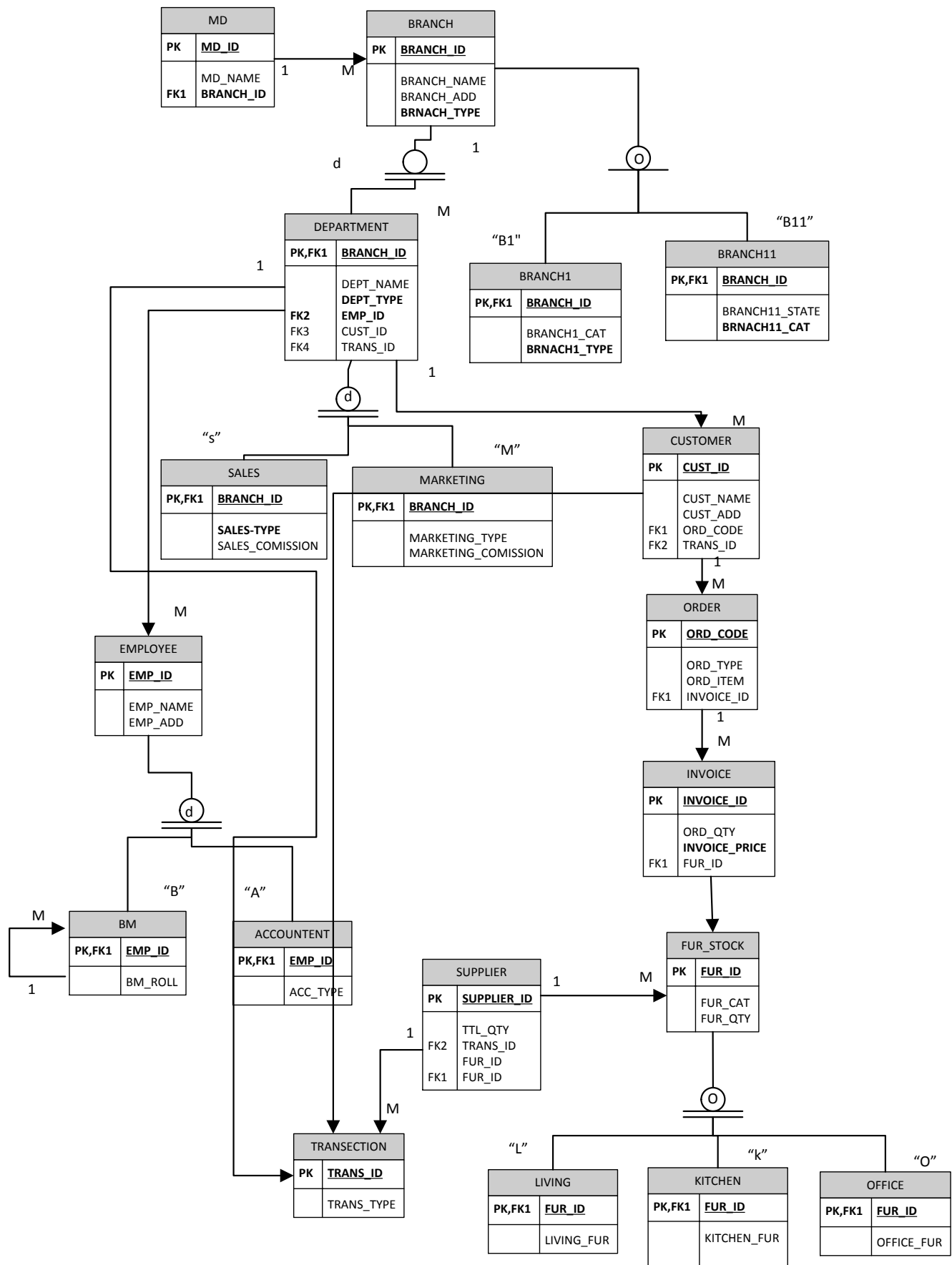
ERD:

**MD**

| | |
|---|---|
| PK | MD_ID |
| | MD_NAME |
| FK1 | BRANCH_ID |

**BRANCH**

| | |
|---|---|
| PK | BRANCH_ID |
| | BRANCH_NAME |
| | BRANCH_ADD |
| | BRNACH_TYPE |

1   M   1

d   M

**DEPARTMENT**

| | |
|---|---|
| PK,FK1 | BRANCH_ID |
| | DEPT_NAME |
| | DEPT_TYPE |
| FK2 | EMP_ID |
| FK3 | CUST_ID |
| FK4 | TRANS_ID |

1

"B1"

**BRANCH1**

| | |
|---|---|
| PK,FK1 | BRANCH_ID |
| | BRANCH1_CAT |
| | BRNACH1_TYPE |

"B11"

**BRANCH11**

| | |
|---|---|
| PK,FK1 | BRANCH_ID |
| | BRANCH11_STATE |
| | BRNACH11_CAT |

O   1

d   1

"s"

**SALES**

| | |
|---|---|
| PK,FK1 | BRANCH_ID |
| | SALES-TYPE |
| | SALES_COMISSION |

"M"

**MARKETING**

| | |
|---|---|
| PK,FK1 | BRANCH_ID |
| | MARKETING_TYPE |
| | MARKETING_COMISSION |

M

**CUSTOMER**

| | |
|---|---|
| PK | CUST_ID |
| | CUST_NAME |
| | CUST_ADD |
| FK1 | ORD_CODE |
| FK2 | TRANS_ID |

1   M

**ORDER**

| | |
|---|---|
| PK | ORD_CODE |
| | ORD_TYPE |
| | ORD_ITEM |
| FK1 | INVOICE_ID |

1   M

**EMPLOYEE**

| | |
|---|---|
| PK | EMP_ID |
| | EMP_NAME |
| | EMP_ADD |

M

d

**INVOICE**

| | |
|---|---|
| PK | INVOICE_ID |
| | ORD_QTY |
| | INVOICE_PRICE |
| FK1 | FUR_ID |

"B"

**BM**

| | |
|---|---|
| PK,FK1 | EMP_ID |
| | BM_ROLL |

M   1

"A"

**ACCOUNTENT**

| | |
|---|---|
| PK,FK1 | EMP_ID |
| | ACC_TYPE |

**SUPPLIER**

| | |
|---|---|
| PK | SUPPLIER_ID |
| | TTL_QTY |
| FK2 | TRANS_ID |
| | FUR_ID |
| FK1 | FUR_ID |

1   M

**FUR_STOCK**

| | |
|---|---|
| PK | FUR_ID |
| | FUR_CAT |
| | FUR_QTY |

1   M

**TRANSECTION**

| | |
|---|---|
| PK | TRANS_ID |
| | TRANS_TYPE |

O

"L"

**LIVING**

| | |
|---|---|
| PK,FK1 | FUR_ID |
| | LIVING_FUR |

"k"

**KITCHEN**

| | |
|---|---|
| PK,FK1 | FUR_ID |
| | KITCHEN_FUR |

"O"

**OFFICE**

| | |
|---|---|
| PK,FK1 | FUR_ID |
| | OFFICE_FUR |

| TABLE NAME | ATTRIBUTE | CONTENTS | TYPE | FORMATE | RANGE | REQUIRED | PK OR FK | FK REFERENCE TABLE |
|---|---|---|---|---|---|---|---|---|
| MD | MD_ID | Specification of managing director | Int(8) | 11111111 | NA | Y | PK | |
| | MD_NAME | MD name | Char(20) | Xxxxxxxx | NA | Y | | |
| | BRANCH_ID | For tracking the Branch | Int(8) | 22222222 | NA | Y | FK | |
| BRANCH | BRANCH_ID | Specification of Branch | Int(8) | 2222222 | NA | Y | PK | FK1,FK2 |
| | BRANCH_NAME | Branch Name | Char(20) | Xxxxx-Xxxx | NA | Y | | |
| | BRANCH_ADD | Branch Address | Char(20) | Xxxxxxx-Xxxxxxx | NA | Y | | |
| | BRNACH_TYPE | Categories of branch | VarChar(20) | Xxx111 | NA | Y | | |
| BRANCH1 | BRANCH_ID | SUBTYPE OF BRANCH | INT (8) | 8888888 | NA | Y | PK | |
| | BRANCH1_CAT | CATAGORIES OF BUSINESS | VARCHAR(20) | XXX11111 | NA | Y | | |
| BRANCH1 | BRANCH_ID | SUBTYPE OF BRANCH | INT (8) | 8888888 | NA | Y | PK | |
| | BRANCH1_CAT | CATAGORIES OF BUSINESS | VARCHAR(20) | XXX11111 | NA | Y | | |
| DEPARTMENT | BRANCH_ID | Specification DEPARTMENT UNDER WHICH BRANCH | Int(8) | 2222222 | NA | Y | PK | FK1 |
| | DEPT_NAME | DEPARTMENT NAME | VARCHAR(20) | Xxxxxxxx | NA | Y | | |
| | DEPT_TYPE | SPACIFICATION OF TYPE | VARCHAR(20) | XAXA111 | NA | Y | | |
| | EMP_ID | EMPLOYEE INFO | Int(8) | 2222222 | NA | Y | FK2 | |
| | CUST_ID | CUSTOMER INFO | Int(8) | 2222222 | NA | Y | FK3 | |
| | TRANS_ID | TRANSACTION INFO | Int(8) | 2222222 | NA | Y | FK4 | |
| SALES | BRANCH_ID | Specification DEPARTMENT OF SALES SUBTYPE | Int(8) | 2222222 | NA | Y | PK | |
| | SALES-TYPE | ONLINE OR HISTORICAL SALES SPEC. | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| | SALES_COMISSION | COMISSION FOR SALES | DACIMAL (18,20) | 22222.00 | NA | Y | | |
| | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| MARKETING | BRANCH_ID | Specification DEPARTMENT OF MARKETING | Int(8) | 2222222 | NA | Y | PK | |
| | MARKETING_TYPE | MARKETING FOR OFFICE OR LIVING | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| | MARKETING_COMISSION | DEPENDS OF TOTAL SALES | DACIMAL (18,20) | 22222.00 | NA | Y | | |
| EMPLOYEE | EMP_ID | SUBTYPE OF DEPARMENT | Int(8) | 2222222 | NA | Y | PK | FK1,FK2 |
| | EMP_NAME | EMPLOYEE NAME | CHAR(20) | Xxxxxx-Xxxxxxx | NA | Y | | |
| | EMP_ADD | EMPLOYEE ADDRESS | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| BM | EMP_ID | SUBTYPE OF EMPLOYEE | Int(8) | 2222222 | NA | Y | PK | FK1 |
| | BM_ROLL | WORKING ROLL | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| ACCOUNTENT | EMP_ID | SUBTYPE OF EMPLOYEE | Int(8) | 2222222 | NA | Y | PK | FK1 |
| | ACC_TYPE | WORKING ROLL | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| CUSTOMER | CUST_ID | SPECFICATION OF CUSTOMER | Int(8) | 2222222 | NA | Y | PK | |
| | CUST_NAME | CUSTOMER NAME | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| | CUST_ADD | CUSTOMER ADDRESS | VARCHAR(20) | Xxxx.xxxx.11111 | NA | Y | | |
| | ORD_CODE | FOR ORDERING | Int(8) | 2222222 | NA | Y | FK1 | |
| | TRANS_ID | FOR TRANSCATION | Int(8) | 2222222 | NA | Y | FK2 | |
| ORDER | ORD_CODE | ORDER NUMBER | Int(8) | 2222222 | NA | Y | PK | |
| | ORD_TYPE | ONLNE OR HISTORICAL | VARCHAR(20) | Xxxx1111 | NA | Y | | |
| | ORD_ITEM | ITEM OF THE FURNITURE | VARCHAR(20) | Xxxxxxxx | NA | Y | | |
| | INVOICE_ID | INVOICE INFO | Int(8) | 2222222 | NA | Y | FK | |
| INVOICE | INVOICE_ID | INVOICE NUMBER | Int(8) | 2222222 | NA | Y | PK | |
| | ORD_QTY | ORDER QTY | DACIMAL (18,20) | 22222.00 | NA | Y | | |
| | INVOICE_PRICE | PRICE OF ORDER | DACIMAL (18,20) | 22222.00 | NA | Y | | |
| | FUR_ID | HISTORY OF FURNITURE | Int(8) | 2222222 | NA | Y | FK | |
| | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FURNITURE_STOCK | FUR_ID | SPECIFICATION OF FURNITURE | Int(8) | 2222222 | NA | Y | | PK | FK1,FK2,FK3 |
| | FUR_CAT | CATAGORIES OF FURNITURE | VARCHAR(20) | Xxxx1111 | NA | Y | | | |
| | FUR_QTY | TOTAL QUANTITY | DACIMAL (18,20) | 22222.00 | NA | Y | | | |
| LIVING_FUR | FUR_ID | SUBTYPE OF FUR_STOCK | Int(8) | 2222222 | NA | Y | | PK | |
| | LIVING_FUR | SPECFICATION OF LIVING FUR LIKE BAD | VARCHAR(20) | Xxxx1111 | NA | Y | | | |
| KITCHEN_FUR | FUR_ID | SUBTYPE OF FUR_STOCK | Int(8) | 2222222 | NA | Y | | PK | |
| | KITCHEN_FUR | SPECFICATION OF KITCHEN FUR LIKE  CASE | VARCHAR(20) | Xxxx | NA | Y | | | |
| | | | | | | | | | |
| OFFICE_FUR | FUR_ID | SUBTYPE OF FUR_STOCK | Int(8) | 2222222 | NA | Y | | PK | |
| | OFFICE_FUR | SPECFICATION OF OFFICE FUR LIKE CHIR | VARCHAR(20) | Xxxx | NA | Y | | | |
| SUPPLIER | SUPPLIER_ID | SPECIFICATION OF SUPPLIER | Int(8) | 2222222 | NA | Y | | PK | |
| | TTL_QTY | TOTAL SUPPLIED QTY | DACIMAL (18,20) | 22222.00 | NA | Y | | | |
| | TRANS_ID | HSITORY OF TRANSACTION | Int(8) | 2222222 | NA | Y | | FK | |
| | FUR_ID | HISTORY OF FUNITURE | Int(8) | 2222222 | NA | Y | | FK | |
| TRANSCATION | TRANS_ID | SPEFICATION OF TRANSACTION | Int(8) | 2222222 | NA | Y | | PK | FK |
| | TRANS_TYPE | ONLINE OR HISTORICAL | VARCHAR(20) | Xxxx | NA | Y | | | |