



The many to many relationships and their bridge entities are shown with the dashed lines between them. So,

- ✓ The ORDER_LINE table is the bridge entity for the ORDER and PRODUCT tables.
- ✓ The PROD_PROM table is the bridge entity for the PRODUCT and PROMOTION tables.
- ✓ The PROD_SUPPLIER table is the bridge entity for the PRODUCT and SUPPLIER tables.

Besides the primary key and foreign key constraints, I would use UNIQUE constraint on PRODUCT_DESCRIPTION so that the each and every product would have a unique description. I would also use NOT NULL constraint to make sure that there would not be any null record for the PRODUCT AMT.

There would be some data validation rules on my data model. For example,

- ✓ The ORDER DATE cannot be later than ORDER REFUND DATE.
- ✓ CUSTOMER PHONE should be 10 digits in length and cannot start with a 0.
- ✓ EMPLOYEE_SSN should be 9 digits in length.
- ✓ SALARY_START_DATE cannot be later than SALARY_END_DATE.
- ✓ EMPLOYEE STATE and CUSTOMER STATE should be capitalized 2 characters in length, etc.