Stock Management

Transfer the following verbal description into an ERM:

a) Customers (Cust-#) place orders in a certain interval (I-ID, e.g. industrial calendar week). Each of these orders can consist of several materials (Mat-#) as line items.

b) A plant (P-#) has several storage locations (SL-ID); the latter are uniquely assigned to one plant.

c) Materials can be stored in several storage locations (storage location stock).

d) The demand created by a certain line item can be met by several stocks of that material in various storage locations.

Cust-#

Cust-#, I-ID

I-ID

Customer — n — Order — m — Interval

n

Cust-#, I-ID, Mat-# — Line Item — n — meet Demand

Cust-#, I-ID, Mat-#, SL-ID

m

P-#

Mat-# — Material

n

Plant

SL-ID, Mat-# — Store — m

1

n

m

has — n — Storage Location — SL-ID
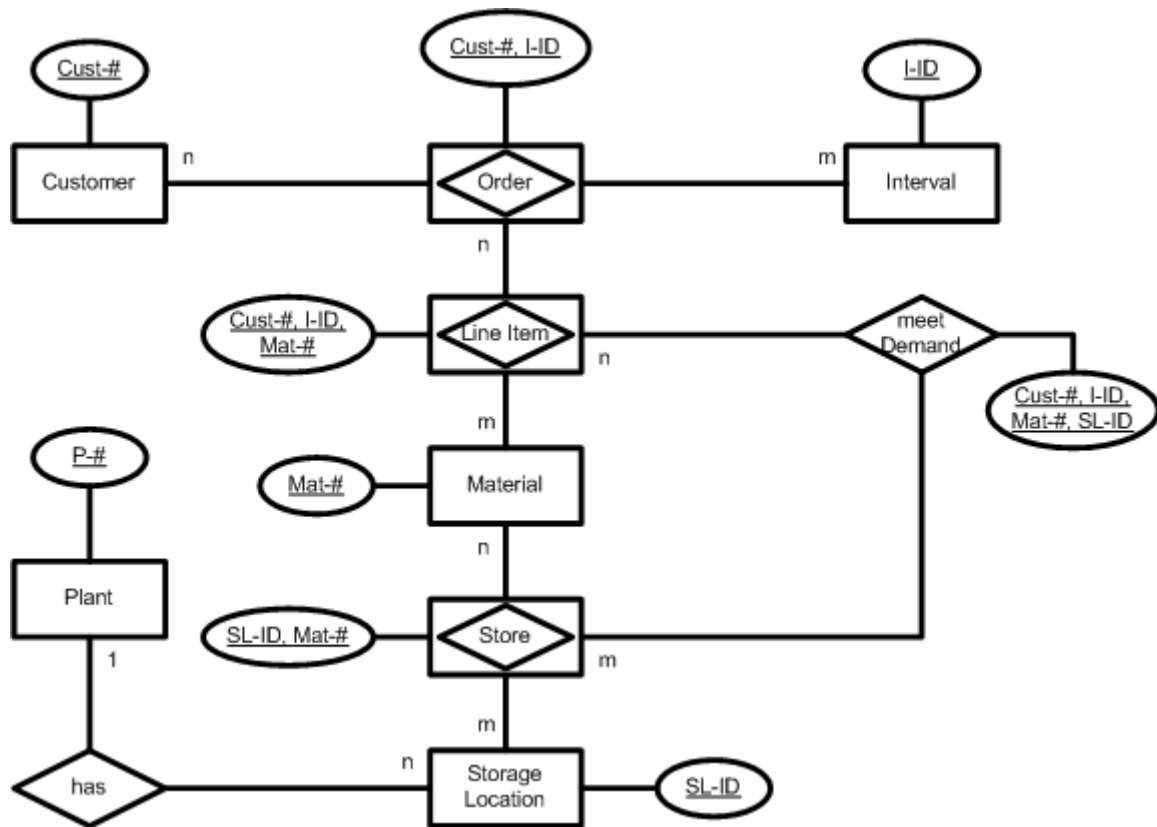
Order

Cust-#	I-ID	..

Customer

Cust-#	..

Interval

I-ID	..

Line Item

Cust-#	I-ID	Mat-#	..

Material

Mat-#	..

Store

SL-ID	Mat-#	..

Storage Location

SL-ID	P-#	..

Plant

P-#	..

Meet Demand

Cust-#	I-ID	Mat-#	SL-ID	..