

Inventory management system with supply chain Analysis Design a database to manage the inventory and supply chain Operations of a manufacturing company. Create a view for generating monthly supply chain reports, including lead time, order according to not stock tornover rate.

Conceptual ERD Example:

products (Suppliers)

Many tomony

Shipments

Many to many

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Ch.praneesh 192372265 CSA 0593

products | Products

Product-ed Product-nome reorder-threshod Supplierx de l'actions

supplier-none lead-time

Orders

Order - 3d (pk)

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shipmento

order-idcpk)
shipmani-date
delixery-date
status

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Stock

otock-id product-id Quantity-in-Stock 1031- restocked Delivery - item

physical ERD Example	
producty	
product - ?d	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
product - name	
reorder - threshold.	1 - The 100 2 10 1
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supplier - ?d	
supplier-nome	, , -, t · C
head - time	100 - 0000
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Order-id	(4 1) 4 - 4 - 3 / 9 C/A 18
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Supplier-id	111+0/2 - 2 - 1 · ()
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Order - story	101 - V 100
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shipment -id	Entrolit - mil - (+1+1+11-mill)
Order -id	1-0/2000-1201
shipment - date	1 - 0.7/ at 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
de livery-dat	

Status VARCHAR STOCK Stock-ig Product-id Quanty -in-stock. hast irestocked Stored procedure: 5QL :-1, 119900 DELIMILER 11 Create procedure Reorder Low Stock Bemel) BEGIN $\int g(t,t) \, dt = \int g(t,t) \, dt$ DECLARE reorder-needed THT: DECLARE Product - CUISOV. SELECT product -id where Quality-in OPEN Product - Cursor;

It reorder-needed

Insert Into Order,

Value (reorder-needed (SELECT Supplier-id)

END JE !

EMD Loop fetch-productx;

Close product - cursor;

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DELI MILTER;

Triggers

DEFIMILEBII

Create Trigger updates stock on shipment

Atter updak on shipments

For Each pow

BEGIN

It HEW. Statu = delivered THEN

Update stock

SET QUAUTITY -in-Stock = QUAUTITY -in-State

KOST - restocked -date = CURRENT -DATE

WHERE Product -id = (SELECT Product -id)

END IF;

END II

DELIMITER;