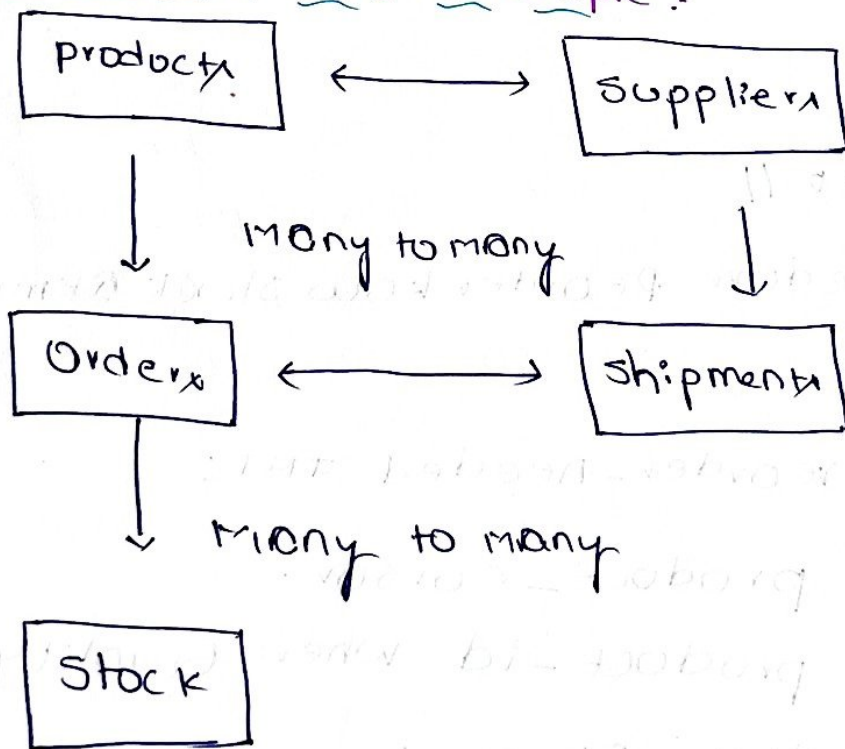


ASSIGN

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 accuracy, and stock turnover ratio.

Conceptual ERD Example:



MENT

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logical ER example:-

products

product-id
product-name
reorder-threshold

suppliers

supplier-name
lead-time

Orders

Order-id (pk)
product-id (FK)
supplier-id (FK)
Order-date
Order-status

shipments

Order-id (FK)
shipment-date
delivery-date
status

Stock

stock-id
product-id
Quantity-in-stock
last-restocked

Delivery-item

physical ERD Example

| products |
|---|
| product-id product-name reorder-threshold |
| Suppliers |
| supplier-id supplier-name lead-time |
| Orders |
| Order-id product-id Supplier-id Order-date Order-status |
| Shipments |
| shipment-id Order-id shipment-date delivery-date |

| |
|--------------------|
| status VARCHAR |
| stock |
| stock-id |
| product-id |
| Quantity-in-stock. |
| last-restocked |

Stored procedure :-

SQL :-

DELIMITER //

→

DELIMITER //

CREATE PROCEDURE ReorderLowStockSkme()

BEGIN

DECLARE

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DECLARE

DECLARE reorder-needed INT;

DECLARE product-cursor;

SELECT product-id where Quantity-in

OPEN product-cursor;

If reorder_needed

Insert Into Orderx

values (reorder_needed (select supplier_id)

END IF;

END LOOP fetch-productx;

Close product - Cursor;

END ||

DELIMITER;

Triggers

DELIMITER ||

Create Trigger updates stock on shipment

After update on shipmentx

FOR Each ROW

BEGIN

IF NEW.STATUS = delivered THEN

UPDATE stock

SET quantity-in-stock = quantity-in-stock

last-restocked-date = CURRENT-DATE

WHERE product-id = (select product-id)

END IF;

END //

DELIMITER;