INVENTORY MANAGEMENT SYSTEM

ABSTRACT

The most important thing about managing inventory is knowing exactly what you have in stock. This helps businesses save money by not buying too much stuff they don't need, and it ensures that customers get their orders on time without running out of things they want to buy. For companies with lots of stores, a good inventory system makes it easy to keep track of everything in one place, so they can make sure each store has just the right amount of stock. This means keeping an eye on what comes in from suppliers and what goes out to customers, so nothing gets lost along the way.

INTRODUCTION

Inventory management is a critical aspect of running a successful business, regardless of its size or industry. It involves overseeing the flow of goods from suppliers to customers while keeping track of stock levels to ensure smooth operations and customer satisfaction. At the heart of effective inventory management lies the need for accurate and up-to-date information about the quantities of products available at any given time.

For businesses with multiple stores or locations, managing inventory becomes even more complex. Ensuring that each store has the right amount of stock to meet customer demand while avoiding excess inventory requires careful planning and coordination. This is where a well-designed inventory management system plays a crucial role.

This paper aims to explore the essential features and functionalities of an inventory management system, with a particular focus on providing real-time information about inventory levels. It will delve into the importance of central control for organizations with multiple stores and how a good inventory management system can help optimize stock levels across all locations.

By examining the core components and benefits of an inventory management system, businesses can gain insights into how to streamline their operations, reduce costs, and enhance customer satisfaction. Throughout the paper, we will emphasize the significance of tracking inventory levels and operations accurately to achieve these objectives effectively.

ENTITY-RELATIONSHIP (ER) DIAGRAM

The Entity-Relationship (ER) diagram for an inventory management system offers a visual representation of the system's architecture, showcasing how various entities interact and the relationships between them. This diagram is instrumental in understanding the underlying structure of the database and its functionality.

Entities represent the core components of the inventory management system, such as products, suppliers, warehouses, and orders. Each entity contains attributes that define its characteristics and properties. For example, a product entity may include attributes like product ID, name, description, price, and quantity.

Relationships between entities illustrate how they are connected and interact within the system. For instance, a supplier entity may have a "supplies" relationship with a product entity, indicating that the supplier provides products to the inventory system. Similarly, an order entity may have relationships with both product and customer entities, representing the items ordered by customers.

Views offer a customized perspective of the data stored in the database, presenting subsets of information tailored to specific user needs. For instance, a manager may have access to a "stock level view" that displays current inventory levels across all warehouses, while a sales representative may have access to a "customer order view" showing pending orders and delivery status.

ENTITIES AND ATTRIBUTES

Product:

- ProductID (Primary Key)
- Name
- Description
- Category
- Price
- QuantityAvailable

Supplier:

- SupplierID (Primary Key)
- Name
- ContactInfo
- Address

Warehouse:

- WarehouseID (Primary Key)
- Location
- Capacity
- Manager
- ContactInfo

Order:

- OrderID (Primary Key)
- CustomerID (Foreign Key referencing Customer)
- OrderDate
- Status
- DeliveryAddress

Transaction:

- TransactionID (Primary Key)
- Date
- Quantity
- Amount
- ProductID (Foreign Key referencing Product)

Customer:

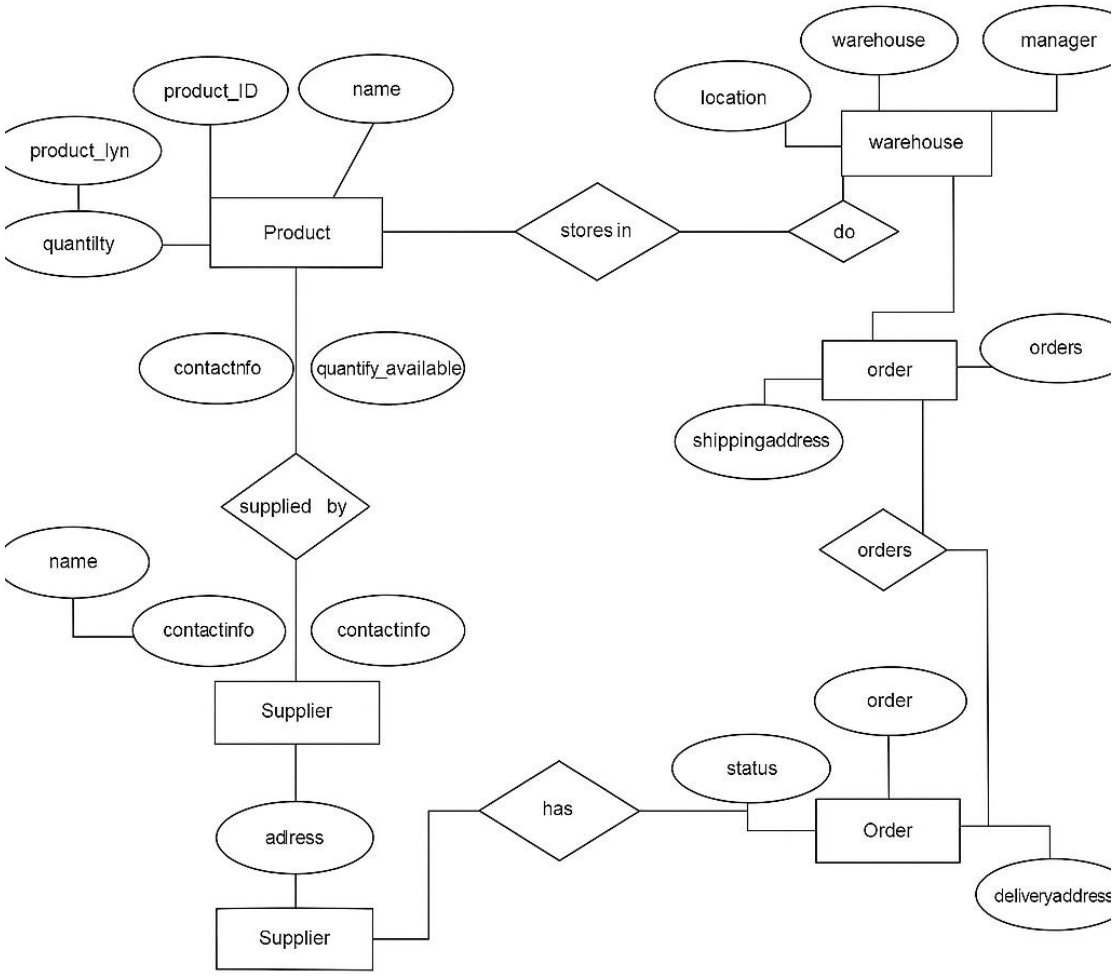
- CustomerID (Primary Key)
- Name
- ContactInfo
- ShippingAddress

Employee:

- EmployeeID (Primary Key)
- Name
- Position

- ContactInfo
- WarehouseID (Foreign Key referencing Warehouse)

ER-DIAGRAM:



IMPLEMENTATION

Creating tables and inserting values:

The CREATE TABLE statement is used to create a new table in a database.

The INSERT INTO statement is used to insert new values or records in a table

SQL> CREATE TABLE Product (ProductID INT PRIMARY KEY, Name VARCHAR(15), Description VARCHAR(30), Category VARCHAR(20), Price DECIMAL(10, 2), QuantityAvailable INT);

Table created.

SQL> CREATE TABLE Supplier (SupplierID INT PRIMARY KEY, Name VARCHAR(20), ContactInfo VARCHAR(30), Address VARCHAR(30));

Table created.

SQL> CREATE TABLE Warehouse (WarehouseID INT PRIMARY KEY, Location VARCHAR(30), Capacity INT, Manager VARCHAR(20), ContactInfo VARCHAR(30));

Table created.

SQL> CREATE TABLE Customer (CustomerID INT PRIMARY KEY, Name VARCHAR(20), ContactInfo VARCHAR(30), ShippingAddress VARCHAR(30));

Table created.

CREATE TABLE Orders (OrderID INT PRIMARY KEY, CustomerID INT, OrderDate DATE, Status VARCHAR(15), DeliveryAddress VARCHAR(30));

Table created.

SQL> CREATE TABLE Transaction (TransactionID INT PRIMARY KEY, TransactionDate DATE, Quantity INT, Amount DECIMAL(10, 2),ProductID INT);

Table created.

SQL> INSERT INTO Product VALUES (1, 'Phoebe', 'Acoustic Guitar', 'Musical Instruments', 299.99, 10);

1 row created.

```
SQL> INSERT INTO Product VALUES (2, 'Joey', 'Leather Jacket', 'Apparel', 150.00, 25);

1 row created.

SQL> INSERT INTO Product VALUES (3, 'Monica', 'Chef Knife Set', 'Kitchen', 120.00, 50);

1 row created.

SQL> INSERT INTO Product VALUES (4, 'Rachel', 'Designer Handbag', 'Accessories', 250.00, 30);

1 row created.

SQL> INSERT INTO Product VALUES (5, 'Chandler', 'Comedy Book Collection', 'Books', 75.00,
100);

1 row created.

SQL> INSERT INTO Product VALUES (6, 'Ross', 'Dinosaur Fossil Kit', 'Educational Toys', 40.00,
75);

1 row created.

SQL> select * from Product;

 PRODUCTID NAME           DESCRIPTION                  CATEGORY
---------- --------------- ---------------------------- --------------------
    PRICE QUANTITYAVAILABLE
---------- -----------------
         1 Phoebe          Acoustic Guitar              Musical Instruments
    299.99              10

         2 Joey            Leather Jacket               Apparel
       150              25

         3 Monica          Chef Knife Set               Kitchen
       120              50
```

4 Rachel Designer Handbag Accessories
250 30

5 Chandler Comedy Book Collection Books
75 100

6 Ross Dinosaur Fossil Kit Educational Toys
40 75

SQL> INSERT INTO Supplier VALUES (1, 'Phoebe Supplies', 'phoebe@friends.com', 'Apt 14, NY');

1 row created.

SQL> INSERT INTO Supplier VALUES (2, 'Joey Apparel', 'joey@friends.com', 'Apt 19, NY');

1 row created.

SQL> INSERT INTO Supplier VALUES (3, 'Monica Kitchen', 'monica@friends.com', 'Apt 20, NY');

1 row created.

SQL> INSERT INTO Supplier VALUES (4, 'Rachel Access', 'rachel@friends.com', 'Central Perk, NY');

1 row created.

SQL> INSERT INTO Supplier VALUES (5, 'Chandler Books', 'chandler@friends.com', 'Apt 19, NY');

1 row created.

SQL> select * from Supplier;

SUPPLIERID NAME CONTACTINFO

---------- -------------------- ----------

ADDRESS

---

1 Phoebe Supplies phoebe@friends.com

Apt 14, NY

2 Joey Apparel joey@friends.com

Apt 19, NY

3 Monica Kitchen monica@friends.com

Apt 20, NY

4 Rachel Access rachel@friends.com

Central Perk, NY

5 Chandler Books chandler@friends.com

Apt 19, NY

SQL> INSERT INTO Warehouse VALUES (1, 'NY Central Whs', 500, 'Heckles', 'heckles@whs.com');

1 row created.

SQL> INSERT INTO Warehouse VALUES (2, 'Brooklyn Store', 300, 'Gunther', 'gunther@whs.com');

1 row created.

SQL> INSERT INTO Warehouse VALUES (3, 'Queens Logist', 700, 'Treeger', 'treeger@whs.com');

1 row created.

SQL> INSERT INTO Warehouse VALUES (4, 'Manhattan Hub', 400, 'Mike', 'mike@whs.com');

1 row created.

SQL> INSERT INTO Warehouse VALUES (5, 'Staten Depot', 200, 'Janice', 'janice@whs.com');

1 row created.

SQL> select * from Warehouse;

WAREHOUSEID LOCATION CAPACITY MANAGER

CONTACTINFO

---

1 NY Central Whs 500 Heckles

heckles@whs.com

2 Brooklyn Store 300 Gunther

gunther@whs.com

3 Queens Logist 700 Treeger

treeger@whs.com

4 Manhattan Hub 400 Mike

mike@whs.com

5 Staten Depot 200 Janice

janice@whs.com

SQL> INSERT INTO Customer VALUES (1, 'Phoebe Buffay', '555-1234', 'Apt 14, NY');

1 row created.

SQL> INSERT INTO Customer VALUES (2, 'Joey Tribbiani', '555-5678', 'Apt 19, NY');

1 row created.

SQL> INSERT INTO Customer VALUES (3, 'Monica Geller', '555-8765', 'Apt 20, NY');

1 row created.

SQL> INSERT INTO Customer VALUES (4, 'Rachel Green', '555-4321', 'Central Perk, NY');

1 row created.

```
SQL> INSERT INTO Customer VALUES (5, 'Chandler Bing', '555-9876', 'Apt 19, NY');
1 row created.

SQL> INSERT INTO Customer VALUES (6, 'Ross Geller', '555-6543', 'Museum of NH, NY');
1 row created.

SQL> select * from Customer;
CUSTOMERID   NAME                 CONTACTINFO
---------- -------------------- ------------------------------
SHIPPINGADDRESS
------------------------------
         1   Phoebe Buffay        555-1234
Apt 14, NY

         2   Joey Tribbiani       555-5678
Apt 19, NY

         3   Monica Geller        555-8765
Apt 20, NY

         4   Rachel Green         555-4321
Central Perk, NY

         5   Chandler Bing        555-9876
Apt 19, NY

         6   Ross Geller          555-6543
Museum of NH, NY
```

```
SQL> INSERT INTO Orders VALUES (1, 1, TO_DATE('2024-01-15', 'YYYY-MM-DD'), 'Pending',
'Central Perk, NY');
```

1 row created.

```
SQL> INSERT INTO Orders VALUES (2, 2, TO_DATE('2024-02-20', 'YYYY-MM-DD'),
'Processing', 'Apt 19, NY');
```

1 row created.

```
SQL> INSERT INTO Orders VALUES (3, 3, TO_DATE('2024-03-05', 'YYYY-MM-DD'), 'Shipped',
'Apt 20, NY');
```

1 row created.

```
SQL> INSERT INTO Orders VALUES (4, 4, TO_DATE('2024-04-10', 'YYYY-MM-DD'),
'Delivered', 'Central Perk, NY');
```

1 row created.

```
SQL> INSERT INTO Orders VALUES (5, 5, TO_DATE('2024-05-25', 'YYYY-MM-DD'),
'Cancelled', 'Museum of NH, NY');
```

1 row created.

```
SQL> INSERT INTO Orders VALUES (6, 6, TO_DATE('2024-06-30', 'YYYY-MM-DD'), 'Pending',
'Apt 14, NY');
```

1 row created.

```
SQL> select * from Orders;
```

ORDERID	CUSTOMERID	ORDERDATE	STATUS	DELIVERYADDRESS
1	1	15-JAN-24	Pending	Central Perk, NY
2	2	20-FEB-24	Processing	Apt 19, NY
3	3	05-MAR-24	Shipped	Apt 20, NY
4	4	10-APR-24	Delivered	Central Perk, NY
5	5	25-MAY-24	Cancelled	Museum of NH, NY
6	6	30-JUN-24	Pending	Apt 14, NY

6 rows selected.

```
SQL> INSERT INTO Transaction VALUES (1, TO_DATE('2024-01-16', 'YYYY-MM-DD'), 2,
599.98, 1);

1 row created.


SQL> INSERT INTO Transaction VALUES (2,TO_DATE('2024-02-21', 'YYYY-MM-DD'), 1,
150.00, 2);

1 row created.


SQL> INSERT INTO Transaction VALUES (3,TO_DATE('2024-03-06', 'YYYY-MM-DD'),5,
600.00, 3);

1 row created.


SQL> INSERT INTO Transaction VALUES (4,TO_DATE('2024-04-11', 'YYYY-MM-DD'),1,
250.00, 4);

1 row created.


SQL> INSERT INTO Transaction VALUES (5,TO_DATE('2024-05-26', 'YYYY-MM-DD'),3,
225.00, 5);

1 row created.


SQL> INSERT INTO Transaction VALUES (6,TO_DATE('2024-06-30', 'YYYY-MM-DD'),4,
160.00, 6);

1 row created.


SQL> select * from Transaction;

TRANSACTIONID TRANSACTI   QUANTITY     AMOUNT  PRODUCTID

------------- --------- ---------- ---------- ----------

         1 16-JAN-24         2     599.98         1

         2 21-FEB-24         1        150         2

         3 06-MAR-24         5        600         3

         4 11-APR-24         1        250         4

         5 26-MAY-24         3        225         5

         6 30-JUN-24         4        160         6

6 rows selected.
```

DDL (Data Definition Language) and DML (Data Manipulation Language) are two types of SQL (Structured Query Language) commands used for different purposes in managing databases:

1. **DDL (Data Definition Language)**:

    - DDL commands are used to define, modify, and manage the structure of database objects such as tables, views, indexes, and constraints.
    - Examples of DDL commands include **CREATE**, **ALTER**, **DROP**, **TRUNCATE**, and **RENAME**.
    - DDL commands do not directly affect the data stored in the database; rather, they define the schema and structure of the database objects.

2. **DML (Data Manipulation Language)**:

    - DML commands are used to manipulate data stored in the database, such as inserting, updating, deleting, and retrieving data.
    - Examples of DML commands include **INSERT**, **UPDATE**, **DELETE**, and **SELECT**.
    - DML commands directly affect the data stored in the database tables, allowing users to perform operations on the data.

SQL> UPDATE Product SET Quantity = 20 WHERE ProductID = 1;

1 row updated.

SQL> DELETE FROM Supplier WHERE SupplierID = 4;

1 row deleted.

SQL> ALTER TABLE Product ADD Discount DECIMAL(5, 2);

1 row altered.

SQL> TRUNCATE TABLE Order;

table truncated.

ALTER TABLE Employee TO Employee123;

table altered.

SQL> COMMIT;

Commit complete.

SQL> ROLLBACK;

Rollback complete.

```
SQL> SELECT * FROM Product WHERE Category IN ('Electronics', 'Clothing');

no rows selected

SQL> SELECT * FROM Product WHERE Price > ANY (SELECT Price FROM Product WHERE
Category = 'Electronics');

no rows selected

SQL> SELECT * FROM Product WHERE Price > ALL (SELECT Price FROM Product WHERE
Category = 'Electronics');

 PRODUCTID NAME           DESCRIPTION                    CATEGORY
---------- --------------- ------------------------------ --------------------
    PRICE QUANTITYAVAILABLE   DISCOUNT
---------- ----------------- ----------
         6 Ross            Dinosaur Fossil Kit            Educational Toys
        40                75

         5 Chandler        Comedy Book Collection         Books
        75                100

         2 Joey            Leather Jacket                 Apparel
       150                25

         4 Rachel          Designer Handbag               Accessories
       250                30

         1 Phoebe          Acoustic Guitar                Musical Instruments
    299.99                10

         3 Monica          Chef Knife Set                 Kitchen
    349.99                50
6 rows selected.

SQL> SELECT * FROM Product WHERE Price BETWEEN 100 AND 500;
```

PRODUCTID NAME DESCRIPTION CATEGORY

---------- ---------- ---------- ----------

PRICE QUANTITYAVAILABLE DISCOUNT

---------- ---------- ----------

1 Phoebe Acoustic Guitar Musical Instruments

299.99 10

2 Joey Leather Jacket Apparel

150 25

3 Monica Chef Knife Set Kitchen

349.99 50

4 Rachel Designer Handbag Accessories

250 30

SQL> SELECT * FROM Product WHERE Name LIKE 'S%';

no rows selected

SQL> SELECT * FROM Customer WHERE EXISTS (SELECT * FROM Orders WHERE Customer.CustomerID = Orders.CustomerID);

no rows selected

SQL> SELECT Category, AVG(Price) AS AvgPrice FROM Product GROUP BY Category;

CATEGORY AVGPRICE

---------- ----------

Kitchen 349.99

Books 75

Accessories 250

Educational Toys 40

Musical Instruments 299.99

Apparel 150

6 rows selected.

SQL> SELECT * FROM Product ORDER BY Price DESC;

PRODUCTID NAME DESCRIPTION CATEGORY

---------- ---------- ---------- ----------

PRICE QUANTITYAVAILABLE DISCOUNT

---------- ---------- ----------

3 Monica Chef Knife Set Kitchen

349.99 50

1 Phoebe Acoustic Guitar Musical Instruments

299.99 10

4 Rachel Designer Handbag Accessories

250 30

2 Joey Leather Jacket Apparel

150 25

5 Chandler Comedy Book Collection Books

75 100

6 Ross Dinosaur Fossil Kit Educational Toys

40 75

6 rows selected.

SQL> SELECT Category, AVG(Price) AS AvgPrice FROM Product GROUP BY Category HAVING AVG(Price) > 500;

no rows selected

SQL AGGREGATE FUNCTIONS*:*

1. SQL aggregation function is used to perform the calculations on multiple rows of a single column of a table. It returns a single value.

It is also used to summarize the data. TYPES OF FUNCTIONS:
Count
sum
average
max
min

COUNT

```
SQL> SELECT COUNT(*) AS TotalProducts FROM Product;

TOTALPRODUCTS
-------------
            6

SQL> SELECT COUNT(*) AS TotalOrders FROM Orders WHERE CustomerID = 1;

TOTALORDERS
-----------
          0
```

SUM

```
SQL> SELECT SUM(QuantityAvailable) AS TotalQuantity FROM Product;

TOTALQUANTITY

-------------

 290
```

AVG

```
SQL> SELECT AVG(Price) AS AveragePrice FROM Product;

AVERAGEPRICE

------------

194.163333
```

MAX

```
SQL> SELECT MAX(Price) AS MaxPrice FROM Product;

 MAXPRICE

----------
```

349.99

MIN

SQL> SELECT MIN(Price) AS MinPrice FROM Product;

MINPRICE

40

Subqueries:

A subquery is a query within another SQL query within the WHERE clause.

- A subquery can be placed in a number of SQL clause like WHERE clause, FROM clause, HAVING clause.
- Subqueries are on the right side of the comparison operator.

ORDER BY CLAUSE:

The SQL ORDER BY CLAUSE is used to sort the data either in ascending or descending order, based on one or more columns

1. Order Products by Price (Ascending)

SQL> SELECT ProductID, Name, Price FROM Product ORDER BY Price ASC;

PRODUCTID	NAME	PRICE
6	Ross	40
5	Chandler	75
2	Joey	150
4	Rachel	250
1	Phoebe	299.99
3	Monica	349.99

6 rows selected.

2. Order Products by Price (Descending)

SQL> SELECT ProductID, Name, Price FROM Product ORDER BY Price DESC;

PRODUCTID NAME PRICE

---------- ---------- ----------

3 Monica 349.99

1 Phoebe 299.99

4 Rachel 250

2 Joey 150

5 Chandler 75

6 Ross 40

6 rows selected.

3. Order Customers by Name (Ascending)

SQL> SELECT CustomerID, Name, ShippingAddress FROM Customer ORDER BY Name ASC;

CUSTOMERID NAME SHIPPINGADDRESS

---------- ---------- ----------

5 Chandler Bing Apt 19, NY

2 Joey Tribbiani Apt 19, NY

3 Monica Geller Apt 20, NY

1 Phoebe Buffay Apt 14, NY

4 Rachel Green Central Perk, NY

6 Ross Geller Museum of NH, NY

6 rows selected.

SQL JOINS:

IN SQL, JOIN clause is used to combine the records from two or more tables in a database.

- There are four types of SQL joins
    1. **INNER JOIN**: An inner join returns only the rows where there is a match in both tables based on the join condition.
    2. **LEFT OUTER JOIN:** All the contents of the left table is printed and matching content of right table is printed ,if there is no matching content it brings NULL
    3. **RIGHT OUTER JOIN:** All the contents of the right table is displayed and matching contents of left table is displayed, if the is no matching content it simply shows NULL.

4. **FULL JOIN:** All the contents of RIGHT OUTER JOIN and LEFT OUTER JOIN are combined.

INNER JOIN:

SQL> SELECT t.TransactionID, t.TransactionDate, p.Name AS ProductName FROM Transaction t INNER JOIN Product p ON t.ProductID = p.ProductID;

TRANSACTIONID TRANSACTI PRODUCTNAME

---------- --------- ----------

1 16-JAN-24 Phoebe

2 21-FEB-24 Joey

3 06-MAR-24 Monica

4 11-APR-24 Rachel

5 26-MAY-24 Chandler

6 30-JUN-24 Ross

6 rows selected.

LEFT OUTER JOIN

SQL> SELECT t.TransactionID, t.TransactionDate, t.Quantity, t.Amount, p.Name AS ProductName, p.Price FROM Product p LEFT JOIN Transaction t ON p.ProductID = t.ProductID;

TRANSACTIONID TRANSACTI QUANTITY AMOUNT PRODUCTNAME PRICE

---------- --------- ---------- ---------- ---------- ----------

1 16-JAN-24 2 599.98 Phoebe 299.99

2 21-FEB-24 1 150 Joey 150

3 06-MAR-24 5 600 Monica 349.99

4 11-APR-24 1 250 Rachel 250

5 26-MAY-24 3 225 Chandler 75

6 30-JUN-24 4 160 Ross 40

RIGHT OUTER JOIN

SQL> SELECT o.OrderID, o.OrderDate, o.Status, c.Name AS CustomerName FROM Orders o RIGHT JOIN Customer c ON o.CustomerID = c.CustomerID;

ORDERID ORDERDATE STATUS CUSTOMERNAME

---------- --------- -------------- --------------------

Phoebe Buffay

Joey Tribbiani

Monica Geller

Rachel Green

Chandler Bing

Ross Geller

6 rows selected.

FULL JOIN

SQL> SELECT e.EmployeeID, e.Name AS EmployeeName, e.Position, e.ContactInfo, e.WarehouseID, m.Name AS ManagerName FROM Employee123 e FULL OUTER JOIN Employee123 m ON e.WarehouseID = m.WarehouseID;

EMPLOYEEID EMPLOYEENAME POSITION

---------- -------------------- --------------------

CONTACTINFO WAREHOUSEID MANAGERNAME

------------------------------ ---------- --------------------

6 Janitor Janitor

555-1111 1 Janitor

7 Technician Technician

555-2222 2 Technician

8 Supervisor Supervisor

555-3333 3 Supervisor

9 Manager Manager

555-4444 4 Manager

10 Clerk Clerk

555-5555 5 Clerk

SET OPERATIONS:

The SQL set operations is used to combine the two or more SQL SELECT statements.

- It returns a single result set by eliminating duplicate rows.

- Queries containing set operators are called compound queries.
- Types of set operation
    1. Union
    2. Union All
    3. Intersect
    4. Minus

UNION:

SQL> SELECT TransactionID, TransactionDate, Quantity, Amount, ProductID FROM Transaction WHERE ProductID = 1 UNION SELECT TransactionID, TransactionDate, Quantity, Amount, ProductID FROM Transaction WHERE ProductID = 2;

TRANSACTIONID TRANSACTI QUANTITY AMOUNT PRODUCTID

---------- --------- ---------- ---------- ----------

1 16-JAN-24 2 599.98 1

2 21-FEB-24 1 150 2

UNION ALL:

SQL> SELECT CustomerID, Name, ContactInfo, ShippingAddress FROM Customer WHERE CustomerID = 1 UNION ALL SELECT CustomerID, Name, ContactInfo, ShippingAddress FROM Customer WHERE CustomerID = 2;

CUSTOMERID NAME CONTACTINFO

---------- -------------------- ------------------------------

SHIPPINGADDRESS

----

1 Phoebe Buffay 555-1234

Apt 14, NY

2 Joey Tribbiani 555-5678

Apt 19, NY

INTERSECT:

SQL> SELECT OrderID, OrderDate, Status, CustomerID FROM Orders WHERE CustomerID = 1 INTERSECT SELECT OrderID, OrderDate, Status, CustomerID FROM Orders WHERE CustomerID = 2;

no rows selected

MINUS:

SQL> SELECT CustomerID, Name, ContactInfo, ShippingAddress FROM Customer WHERE CustomerID = 1 MINUS SELECT CustomerID, Name, ContactInfo, ShippingAddress FROM Customer WHERE CustomerID = 2;

CUSTOMERID NAME CONTACTINFO

---------- -------------------- ------------------------------

SHIPPINGADDRESS

----

1 Phoebe Buffay 555-1234

Apt 14, NY

CONCLUSION:

The inventory management system efficiently organizes and tracks inventory-related data including products, suppliers, warehouses, customers, orders, transactions, and employees. Leveraging a relational database and SQL queries, it ensures accurate inventory management, streamlined operations, and data-driven decision-making. With robust features such as product and supplier management, order tracking, and employee assignment, the system promotes efficiency, transparency, and customer satisfaction. Ongoing monitoring and optimization ensure adaptability to evolving business needs, driving organizational growth and success.