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Task 1

## 1. Introduction

Parkside Medical Practice is a surgery that employs general practitioners, nurses and administrative staff. They provide healthcare to a variety of patients with different medical needs. This report shows the design process for a database that will help manage the surgery’s operations more effectively. It includes identifying entities, attributes and defining the relationships between them.

## Logical Model

### Entities for Parkside Medical practice

1. **Patient:** Store patient information.
2. **Appointment:** Store appointment details.
3. **Prescription:** Store prescription information.
4. **Staff:** Store staff details.
5. **Role:** Store staff roles.

### Attributes for each entity

1. **Patient:**

* Patient\_id (PK)
* First\_Name
* Last\_Name
* Phone\_Number
* Email\_Address
* DOB
* Registration\_Date

1. **Appointment:**

* Appointment\_id (PK)
* Patient\_id (FK)
* Staff\_id (FK)
* Appointment\_Type
* Appointment\_Status
* Date
* Time
* Treatment\_Notes
* Diagnosis

1. **Prescription:**

* Prescription\_id (PK)
* Appointment\_id (FK)
* Medication
* Quantity
* Prescription\_Instructions
* Date\_Issued

1. **Staff:**

* Staff\_id (PK)
* Role\_id (FK)
* First\_Name
* Last\_Name
* Date\_Joined

1. **Role:**

* Role\_id (PK)
* Rol\_Name

### Relationships

* Patients may have zero or many appointments.
* Each appointment must have exactly one patient.
* A Staff members may have zero or many appointments.
* Exactly one staff member may conduct an appointment.
* Each appointment may issue zero or many prescriptions.
* Each prescription is linked to exactly one appointment.
* Each Staff member must have exactly one role.
* A Roles can be assigned to one or many staff members.

### 2.4. Logical Model (Entity Relationship Diagram)

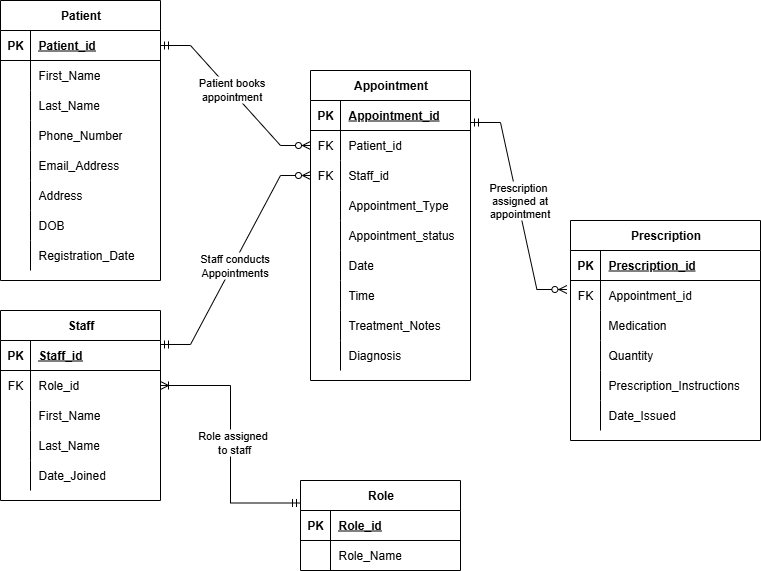


Figure 1 - Logical Model

### 2.5. Normalization of 3 NF

Each entity was normalized to 3NF, this ensures that the relationships obtained from data models are free from redundancy which can bring about update, insert and delete inconsistency when applied (Connolly & Begg, 2015).

1. **Patient:**

* **1NF:**  
  Repeating data was removed.
* **2NF:**   
  Each attribute depends fully on a single key, Patient\_id.
* **3NF:**   
  There are no transitive dependencies.

1. **Appointment:**

* **1NF:**   
  Appointment details were separated from patient and staff information.
* **2NF:**  
  A single key (Appointment\_id) was created so that each attribute only depends on one key.
* **3NF:**  
  There are no transitive dependencies.

1. **Prescription:**

* **1NF:**  
  Prescription details were separated from appointment information.
* **2NF:**Each attribute depends fully on a single key, Prescription\_id.
* **3NF:**There are no transitive dependencies.

1. **Staff:**

* **1NF:**Staff details were separated from their roles.
* **2NF:**Each attribute depends fully on a single key, Staff\_id.
* **3NF:**A transitive dependency between Staff and Role was removed by creating a separate Role entity.

1. **Role:**

* **1NF:**Role details have only atomic values.
* **2NF:**All attributes depend on a single key, Role\_id.
* **3NF:**There are no transitive dependencies.

### 2.6. Assumptions

* Only registered patients can book appointments, this ensures that every appointment is linked to a patient record.
* Appointments can only have a single patient at a time, no group bookings.
* Only GPs and nurses can conduct appointments.
* Administrative staff may not conduct appointments, this prevents non-medical staff from conducting appointments.
* Prescriptions are linked to appointments, not directly to patients or staff, this avoids data redundancy, as details of the prescription, staff member and patient can be obtained through appointments.

## Physical Model

### Entities

1. **Patient:**

* Patient\_id INT (PK, AUTO\_INCREMENT)
* First\_Name VARCHAR(50) NOT NULL
* Last\_Name VARCHAR(50) NOT NULL
* Phone\_Number VARCHAR(20) NOT NULL
* Email\_Address VARCHAR(100) UNIQUE
* DOB DATE NOT NULL
* Registration\_Date DATE NOT NULL

1. **Appointment:**

* Appointment\_id INT (PK, AUTO\_INCREMENT)
* Patient\_id (FK) INT NOT NULL
* Staff\_id (FK) INT NOT NULL
* Appointment\_Type VARCHAR(50) NOT NULL
* Appointment\_Status VARCHAR(50) NOT NULL
* Date DATE NOT NULL
* Time TIME NOT NULL
* Treatment\_Notes TEXT
* Diagnosis VARCHAR(250)

1. **Prescription:**

* Prescription\_id INT (PK, AUTO\_INCREMENT)
* Appointment\_id INT (FK) NOT NULL
* Medication VARCAHR9100) NOT NULL
* Quantity INT NOT NULL
* Prescription\_Instructions TEXT
* Date\_Issued DATE NOT NULL

1. **Staff:**

* Staff\_id INT (PK, AUTO\_INCREMENT)
* Role\_id INT (FK) NOT NULL
* First\_Name VARCHAR(50) NOT NULL
* Last\_Name VARCHAR(50) NOT NULL
* Date\_Joined DATE NOT NULL

1. **Role:**

* Role\_id INT (PK, AUTO\_INCREMENT)
* Rol\_Name VARCHAR(50) NOT NULL UNIQUE

### Changes made to logical model:

* **Primary Keys and Foreign Keys:**

Primary keys were added to uniquely identify each record in these tables while foreign keys were added to link related entities to each other. (Pajankar, 2020).

* **Data types and Constraints:**
  + VARCHAR(n):   
    Used for short text such as names, surnames and phone numbers.
  + TEXT:  
    Used for longer text such as descriptions or notes.
  + DATE:  
    Used to store dates such as Date\_Issued and Date\_joined.
  + TIME:  
    Store specific appointment times.
  + INT:  
    Used for numerical values such as ID’s and quantities.
  + UNIQUE:  
    Prevents duplicate entries, making each one of a kind.
  + NULL:   
    Ensure that important fields are filled in.

### Impact of changes made from logical to physical model

* **Data types:**

They were implemented into the physical model so we could identify storages methods for the data, allowing us to improve efficiency for our database (Connolly & Begg, 2015).

* **Constraints:**

Constraint provides data integrity and accuracy for all tables, these constraints include NOT NULL, UNIQUE and FORGEIN KEY

### Physical Model (Entity Relationship Diagram)

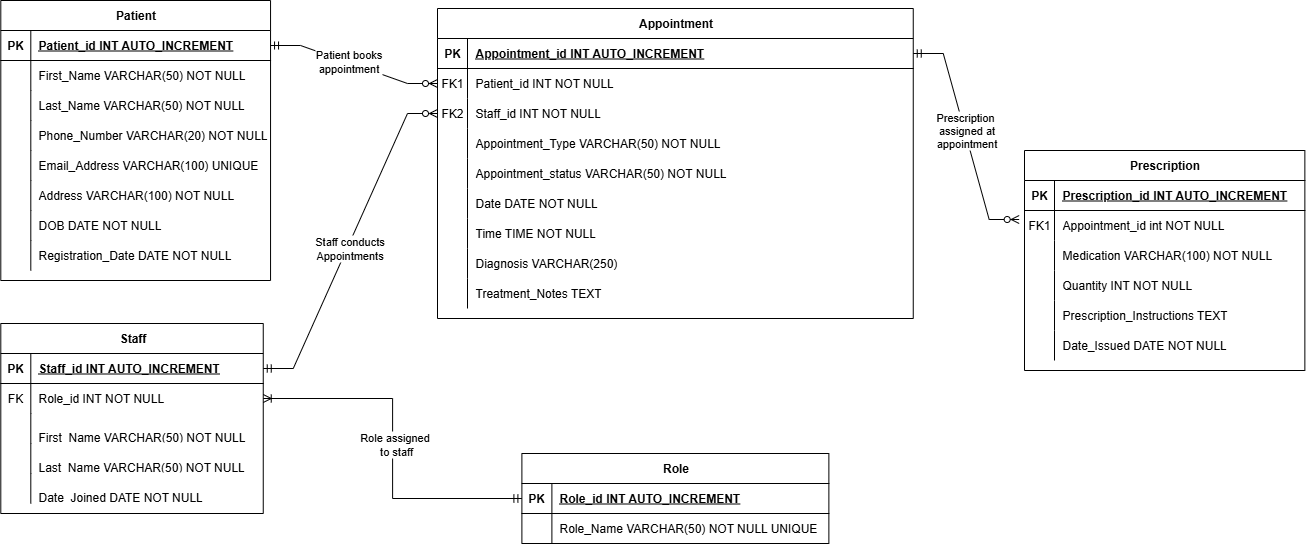


Figure 2 - Physical Model

# Task 2

## Introduction

The database was created for Parkside purchase ordering system. Seven tables were constructed using the CREATE TABLE statements with the suitable data types, primary keys, foreign keys and constraints. Auto Increment was applied where indicated to generate unique identifiers automatically.

After tables were created, relevant data was inserted into each table to show realistic records for staff, supplier, products, purchase order, purchase order line, deliveries and payments. The database was then tested to ensure relationships and constraints work as intended.

Student number was used as database name, as seen on screenshots and the full SQL code used for table creation and data insertion can be found in **Appendix 1**

## Screenshots of Tables

### Staff Table

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Figure 3 - Staff table

SELECT \* FROM Staff;

Figure 3 shows the Staff table, which stores all staff details including StaffID, StafFirstName and StaffSurname.

It contains six staff members each with a unique id, starting from 1000 to 1005. These IDs are used to link staff members to purchase orders, deliveries and payments.

### Supplier Table

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Figure 4 -Supplier Table

SELECT \* FROM Supplier;

Figure 4 shows the Supplier table, which stores supplier details including SupplierID, Name, Phone, ContactName, Email and Address.

It contains six suppliers, each with their own unique ID from 100 to 105. These ID links them to their products and purchase orders.

### Product Table

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Figure 5 - Product Table

SELECT \* FROM Product;

Figure 5 shows the Product table, which stores product details, including ProductID, ProductName, Description, UnitPrice, QuantityInStock and SupplierID.

It contains 19 products, each with their own unique ID from 500 to 518. SupplierID is a Foreign Key that links each product to its supplier in the supplier table.

### PurchaseOrder Table

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Figure 6 - PurchaseOrder Table

SELECT \* FROM PurchaseOrder;

Figure 6 shows the PurchaseOrder table, which stores order details including PurchaseOrderID, OrderDate, SatffID and SupplierID.

It contains six orders, each with their own unique ID from 1 to 6.

StaffID and SupplierID are foreign keys that link each order to the staff member who placed it and the supplier it was made with.

### PurchaseOrderLine Table

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Figure 7 - PurchaseOrderLine Table

SELECT \* FROM PurchaseOrderLine;

Figure 6 shows the PurchaseOrderLine table, which stores the quantity of each product in a single purchase order.

It contains details such as POLineID, PurchaseOrderID, ProductID and Quantity.

PurchaseOrderID and Product ID are forgein keys that link each record to the related product and purchase order.

### Delivery Table

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Figure 8 - Delivery Table

SELECT \* FROM Delivery;

Figure 8 shows the Delivery table, which stores details of deliveries, including DeliveryID, PurchaseOrderID, DeliveryDate, StaffID and DeliveryStatus.

It contains six deliveries, each with their own unique ID from 1 to 6. PurchaseOrderID and StaffID are foreign keys that link each delivery to the purchase order it belongs to and the staff member who handled it.

Delivery Status shows whether the delivery it is completed, partial or returned.

### Payment Table

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Figure 9 - Payment Table

SELECT \* FROM Payment;

Figure 9 shows the Payment table, which stores all the payments made for purchase orders. Details included are PaymentID, PurchaseOrderID, PaymentDate, AmountPaid, PaymentMethod and StaffID.

PurchaseOrderID and StaffID are foreign keys that link each payment to a related purchase order and the staff member who processed it.

The query below was used to calculate the total amount paid per purchase order:

SELECT PurchaseOrderLine.PurchaseOrderID,

SUM(Product.UnitPrice \* PurchaseOrderLine.Quantity) AS TotalCost

FROM PurchaseOrderLine, Product

WHERE PurchaseOrderLine.ProductID = Product.ProductID

GROUP BY PurchaseOrderLine.PurchaseOrderID;

# Task3

## Introduction

This Task demonstrates the use of SQL queries to retrieve, update and display data for Parkside Purchase Order database. Each case focuses on different SQL statements, including INNER JOIN, WHERE, GROUP BY, UPDATE, DELETE and the COUNT function. These statements show how data can be searched, modified and grouped to help Parkside manage their day-to-day operations.

## Case 1:

The query shows each purchase order in the database, showing the PurchaseOrderID, OrderDate and SupplierName. An INNER JOIN statement was used to join the data from the PurchaseOrder and Supplier tables, this allows for supplier details to be displayed alongside each other.

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Figure 10 - Case 1

SELECT PurchaseOrder.PurchaseOrderID, PurchaseOrder.OrderDate,  
Supplier.Name AS SupplierName

FROM PurchaseOrder

INNER JOIN Supplier

ON PurchaseOrder.SupplierID = Supplier.SupplierID;

Figure 10 shows six purchase orders, showing its ID, order date and supplier connected to that order.

## Case 2:

**2a)** The query lists all the products grouped by their supplier. The JOIN statement connects the Product and Supplier tables using the SupplierID. The GROUP BY statement is used to match each product to its suppliers, showing how many products each supplier provides.

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Figure 11 - Case 2a

SELECT Supplier.Name as SupplierName, Product.ProductName

FROM Product

JOIN Supplier ON Product.SupplierID = Supplier.SupplierID

GROUP BY SupplierName, ProductName;

Figure 11 shows each supplier with the product they provided.

**2b)** This query searches for products based on their price. The WHERE statement is used to search for products that cost less than £50 as seen in Figure 12 . The same statement is used to find products that cost more than £50 in Figure 13.

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Figure 12 - Case 2b (Products less than 50)

SELECT \* FROM Product

Where UnitPrice < 50;

Figure 12 shows all products with a price less than £50

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Figure 13 - Case 2b (Products greater than 50)

SELECT \* FROM Product

Where UnitPrice > 50;

Figure 13 shows all products with a price greater than £50

## Case 3

**3a)** This query updates the quantity of stock for Examination Gloves after a delivery. The UPDATE statement is used to increase the value of QuantityInStock by 50 WHERE the ProductID = 501, increasing the value from 12 to 62. Two SELECT statements were used before and after the update to show change in stock.

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Figure 14 - Case 3a (Before Update)

SELECT \* FROM Product WHERE ProductID = 501;

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Figure 15 – Case 3a (After Update)

UPDATE Product SET QuantityInStock = QuantityInStock + 50

WHERE ProductID = 501;

SELECT \* FROM Product WHERE ProductID = 501;

Figure 14 shows the products original value of 12, while Figure 15 shows the updated value after 50 units were added.

**3b)** This query removes the Clipboard from the database. Before deleting the product, related records from the PurchaseOrderLine table were removed to avoid foreign key constraint errors. After that the product was removed from the product table using the DELETE statement. A SELECT statements were used to show that there was no data relating to ProductID = 515, and another SELECT statement was used to show that the product is no longer in the Product table.

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Figure 16 - Case 3b (Before Delete)

SELECT \* FROM Product WHERE ProductID = 515;

Figure 16 shows Clipboard before deletion.

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Figure 17 - Case 3b (After Delete)

DELETE FROM PurchaseOrderLine WHERE ProductID = 515;

DELETE FROM Product WHERE ProductID = 515;

SELECT \* FROM Product WHERE ProductID = 515;

Figure 17 shows deletion of product and blank table when product is selected again.

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Figure 18 - Case 3b (Product Removed From Products)

SELECT \* FROM Product;

Figure 18 shows complete Product table, without Clipboard (ProductID = 515), confirming product was successfully deleted.

## Case 4

**4a)** This query updates the price of Disposable syringes to £20.00. The UPDATE statement changes the UnitPrice value in Product table where ProductID = 500. Two SELECT statements were used before and after to show change in price.

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Figure 19 - Case 4a (Before Update)

SELECT ProductID, ProductName, UnitPrice FROM Product WHERE ProductID = 500;

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Figure 20 - Case 4 (After Update)

UPDATE Product SET UnitPrice = 20.00 WHERE ProductID = 500;

SELECT ProductID, ProductName, UnitPrice FROM Product WHERE ProductID = 500;

Figure 19 show the original price of Disposable Syringes as £15.99, while Figure 20 shows the updated price of £20.00

**4b)**This query counts how many products were ordered in each purchase order. The COUNT() function is used to get the total number of products linked to each order in the PurchaseOrderLine table. The GROUP BY statement groups the results by PurchaseOrderID, showing one total for each order.

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Figure 21 - Case 4b

SELECT PurchaseOrderID, COUNT(ProductID) AS NumberOfProducts FROM PurchaseOrderLine GROUP BY PurchaseOrderID;

Figure 21 shows each purchase order with the total number of products it contains.

**4c)** This query calculates the total amount spent on products from each supplier. JOIN statements are used to connect Supplier, product and PurchaseOrderLine tables. The SUM() function multiplies the unit price by the quantity for each product ordered to find the total cost and the GROUP BY statements groups the supplier by totals.

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Figure 22 - Case 4c

SELECT Supplier.SupplierID, Supplier.Name AS SupplierName, SUM(Product.UnitPrice \* PurchaseOrderLine.Quantity) AS TotalAmountSpent

FROM Supplier

JOIN Product ON Supplier.SupplierID = Product.SupplierID

JOIN PurchaseOrderLine ON Product.ProductID = PurchaseOrderLine.ProductID

GROUP BY Supplier.SupplierID, Supplier.Name;

Figure 22 shows the amount each supplier spent on their products.

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# Appendix 1 – SQL Code

**Task 2:**

**Create Tables**

**Staff:**

CREATE TABLE Staff (

StaffID INT AUTO\_INCREMENT PRIMARY KEY,

StaffFirstName VARCHAR(100),

StaffLastName VARCHAR(100)

);

ALTER TABLE Staff AUTO\_INCREMENT = 1000;

ALTER TABLE Staff CHANGE COLUMN StaffFirstName StafFirstName VARCHAR(100);

ALTER TABLE Staff CHANGE COLUMN StaffLastName StaffSurname VARCHAR(100);

ALTER TABLE Staff   
MODIFY StafFirstName VARCHAR(100) NOT NULL,  
MODIFY StaffSurname VARCHAR(100) NOT NULL;

**Supplier:**

CREATE TABLE Supplier (

SupplierID INT AUTO\_INCREMENT PRIMARY KEY,

Name VARCHAR(100),

ContactName VARCHAR(100),

Phone VARCHAR(20),

Email VARCHAR(100),

Address VARCHAR(255)

);

ALTER TABLE Supplier AUTO\_INCREMENT = 100;

ALTER TABLE Supplier

MODIFY Name VARCHAR(100) NOT NULL,

MODIFY ContactName VARCHAR(100) NOT NULL,

MODIFY Phone VARCHAR(20) NOT NULL,

MODIFY Email VARCHAR(100) UNIQUE NOT NULL,

MODIFY Address VARCHAR(255) NOT NULL;

**Product:**

CREATE TABLE Product (

ProductID INT AUTO\_INCREMENT PRIMARY KEY,

ProductName VARCHAR(100),

Description TEXT,

UnitPrice DECIMAL(10,2) CHECK (UnitPrice > 0),

QuantityInStock INT,

SupplierID INT,

CONSTRAINT fk\_product\_supplier FOREIGN KEY (SupplierID) REFERENCES Supplier(SupplierID)

);

ALTER TABLE Product AUTO\_INCREMENT = 500;

ALTER TABLE Product

MODIFY ProductName VARCHAR(100) NOT NULL;

ALTER TABLE Product

MODIFY QuantityInStock INT CHECK (QuantityInStock >= 0);

**PurchaseOrder:**

CREATE TABLE PurchaseOrder (

PurchaseOrderID INT AUTO\_INCREMENT PRIMARY KEY,

OrderDate DATE,

StaffID INT,

SupplierID INT,

CONSTRAINT fk\_po\_staff FOREIGN KEY (StaffID) REFERENCES Staff(StaffID),

CONSTRAINT fk\_po\_supplier FOREIGN KEY (SupplierID) REFERENCES Supplier(SupplierID)

);

ALTER TABLE PurchaseOrder

MODIFY OrderDate DATE NOT NULL;

ALTER TABLE PurchaseOrderLine

MODIFY Quantity INT CHECK (Quantity > 0);

**PurchaseOrderLine:**

CREATE TABLE PurchaseOrderLine (

POLineID INT AUTO\_INCREMENT PRIMARY KEY,

PurchaseOrderID INT,

ProductID INT,

Quantity INT,

CONSTRAINT fk\_pol\_order FOREIGN KEY (PurchaseOrderID) REFERENCES PurchaseOrder(PurchaseOrderID),

CONSTRAINT fk\_pol\_product FOREIGN KEY (ProductID) REFERENCES Product(ProductID)

);

**Delivery:**

CREATE TABLE Delivery (

DeliveryID INT AUTO\_INCREMENT PRIMARY KEY,

PurchaseOrderID INT,

DeliveryDate DATE,

StaffID INT,

DeliveryStatus VARCHAR(50),

CONSTRAINT fk\_delivery\_order FOREIGN KEY (PurchaseOrderID) REFERENCES PurchaseOrder(PurchaseOrderID),

CONSTRAINT fk\_delivery\_staff FOREIGN KEY (StaffID) REFERENCES Staff(StaffID)

);

ALTER TABLE Delivery

MODIFY DeliveryDate DATE NOT NULL,

MODIFY DeliveryStatus VARCHAR(50) NOT NULL;

**Payment:**

CREATE TABLE Payment (

PaymentID INT AUTO\_INCREMENT PRIMARY KEY,

PurchaseOrderID INT,

PaymentDate DATE,

AmountPaid DECIMAL(10,2),

PaymentMethod VARCHAR(50),

StaffID INT,

CONSTRAINT fk\_payment\_order FOREIGN KEY (PurchaseOrderID) REFERENCES PurchaseOrder(PurchaseOrderID),

CONSTRAINT fk\_payment\_staff FOREIGN KEY (StaffID) REFERENCES Staff(StaffID)

);

ALTER TABLE Payment

MODIFY PaymentDate DATE NOT NULL,

MODIFY AmountPaid DECIMAL(10,2) CHECK (AmountPaid >= 0),

MODIFY PaymentMethod VARCHAR(50) NOT NULL;

**Insert Data**

**Staff:**

INSERT INTO Staff (StafFirstName, StaffSurname) Values

('Alice', 'Miller'),

('John', 'Smith'),

('Sarah', 'Brown'),

('Michael', 'Davis'),

('Emily', 'Johnson'),

('Robert', 'Wilson');

**Supplier:**

INSERT INTO Supplier (Name, ContactName, Phone, Email, Address) VALUES

('Medicare','Oliver Queen','07760877635','oliver@medicare.com','44 Church Lane, Brighton'),

('Discem','Grant Gustin','07704335370','grant@discem.com','77 Richmond Road, South West London'),

('Vitality care','Walter Black','07019811309','walter@vitalitycare.com','12 Victoria Road, East London'),

('Mediworld','Gavin Booth','07856473374','gavin@mediworld','838 Kingsway, Hemel Hempstead'),

('MK Medicals','Russell Roman','07859634762','russell@mkmedicals.com','59 George Street, Darlington'),

('Excel Healthcare','David Kirby','07702214012','david@excelhealthcare','99 Station Road, Glasgow');

**Product:**

INSERT INTO Product (ProductName, Description, UnitPrice, QuantityInStock) VALUES

('Disposable Syringes','Sterile 5ml syringes, box of 100', 15.99 , 80),

('Examination Gloves ','Nitrile gloves, medium, box of 100', 12.50, 12),

('Stethoscope','Professional grade dual-head', 59.99, 2),

('Digital Thermometer','Fast-read digital thermometer', 9.99 , 5),

('Alcohol Swabs','Isopropyl alcohol prep pads, 200 pcs', 6.95, 30),

('Blood Pressure Monitor','Upper arm automatic unit', 75.00, 12),

('Bandages','Self-adhesive 4-inch roll bandages', 4.99, 58),

('Hand Sanitizer','500ml antibacterial gel bottles', 3.50, 60),

('Surgical Masks','3-ply disposable face masks, 50 pack', 8.20, 88),

('Office Printer Paper','A4 80gsm white, ream of 500 sheets', 4.25, 10),

('Disinfectant Spray','Surface cleaner, 750ml bottle', 2.85, 12),

('Waiting Room Chairs','Vinyl padded stackable chairs', 45.00, 24),

('Sharps Bin','5-litre yellow container for needles', 7.95, 45),

('Tongue Depressors','Wooden, non-sterile, box of 100', 3.10, 70),

('Glucose Testing Strips','50-count, for use with glucometer', 14.50, 100),

('Clipboard','A4 plastic with metal clip', 2.20, 12),

('Wall Clock','Silent, analog, batterypowered', 11.75, 2),

('Otoscope Set','Diagnostic otoscope with 3 specula', 89.99, 5),

('Floor Cleaner','5-litre hospital-grade concentrate', 16.80, 34);

UPDATE Product SET SupplierID = 100 WHERE ProductID IN (500, 501);

UPDATE Product SET SupplierID = 101 WHERE ProductID IN (505, 507, 506);

UPDATE Product SET SupplierID = 102 WHERE ProductID IN (508, 512);

UPDATE Product SET SupplierID = 103 WHERE ProductID IN (511, 516, 517, 514);

UPDATE Product SET SupplierID = 104 WHERE ProductID IN (510, 518);

UPDATE Product SET SupplierID = 105 WHERE ProductID IN (503, 509, 515);

UPDATE Product SET SupplierID = 100 WHERE ProductID IN (502);

UPDATE Product SET SupplierID = 102 WHERE ProductID IN (504);

UPDATE Product SET SupplierID = 104 WHERE ProductID IN (513);

**Purchase Order:**

INSERT INTO PurchaseOrder (OrderDate, StaffID, SupplierID) VALUES

('2025-01-10', 1000, 100),

('2025-01-13', 1001, 101),

('2025-01-15', 1002, 102),

('2025-02-10', 1003, 103),

('2025-03-01', 1004, 104),

('2025-03-12', 1005, 105);

**Purchase Order Line:**

INSERT INTO PurchaseOrderLine (PurchaseOrderID, ProductID, Quantity) VALUES

-- Order 1

(1, 500, 10),

(1, 501, 5),

-- Order 2

(2, 505, 2),

(2, 507, 20),

(2, 506, 8),

-- Order 3

(3, 508, 10),

(3, 512, 3),

-- Order 4

(4, 511, 4),

(4, 516, 1),

(4, 517, 2),

(4, 514, 25),

-- Order 5

(5, 510, 5),

(5, 518, 1),

-- Order 6

(6, 503, 4),

(6, 509, 2),

(6, 515, 8);

**Delivery:**

INSERT INTO Delivery (PurchaseOrderID, DeliveryDate, StaffID, DeliveryStatus) VALUES

(1, '2025-01-12', 1000, 'Complete'),

(2, '2025-01-16', 1001, 'Complete'),

(3, '2025-01-25', 1002, 'Complete'),

(4, '2025-02-12', 1003, 'Partial'),

(5, '2025-03-10', 1004, 'Complete'),

(6, '2025-03-14', 1005, 'Returned');

**Payment:**

SELECT PurchaseOrderLine.PurchaseOrderID,

SUM(Product.UnitPrice \* PurchaseOrderLine.Quantity) AS TotalCost

FROM PurchaseOrderLine, Product

WHERE PurchaseOrderLine.ProductID = Product.ProductID

GROUP BY PurchaseOrderLine.PurchaseOrderID;

INSERT INTO Payment (PurchaseOrderID, PaymentDate, AmountPaid, PaymentMethod, StaffID) VALUES

(1, '2025-01-12', 222.40, 'Card', 1000),

(2, '2025-01-16', 259.92, 'Bank Transfer', 1001),

(3, '2025-01-25', 105.85, 'Card', 1002),

(4, '2025-02-12', 734.23, 'Bank Transfer', 1003),

(5, '2025-03-10', 31.05, 'Card', 1004),

(6, '2025-03-14', 66.06, 'Bank Transfer', 1005);