Normalization

Updated & Final Normalization for the final stage.

**Underlined fields = primary keys. \* = Foreign Keys**

### Customer

*CUSTOMER* (Customer ID, Customer Forename, Customer Surname, Customer Telephone No, Customer Email, Customer Street, Customer Town, Customer Postcode)

### Stock Payments

**ONF**

*STOCK PAYMENTS* (Stock Payments ID, \*Order ID, Payment Method, Stock Payment Amount, Payment Date, Payment Confirmation, Stock Payment Type, Stock Payments Type Desc)

**1NF**

STOCK PAYMENTS (Stock Payments ID, \*Order ID, Payment Confirmation)

STOCK PAYMENTS DETAILS (Stock Payments ID, Payment Method, Stock Payment Amount, Payment Date, Stock Payment Type, Stock Payments Type Desc)

**2NF**

STOCK PAYMENTS (Stock Payments ID, \*Order ID, Payment Confirmation)

STOCK PAYMENTS DETAILS (Stock Payments ID, Stock Payments Type ID, Stock Payment Amount, Payment Date)

STOCK PAYMENT TYPE(Stock Payments Type ID, Payment Method, Stock Payments Type Desc)

**3NF**

STOCK PAYMENTS(Stock Payments ID, \*Order ID, Payment Confirmation)

STOCK PAYMENTS DETAILS (Stock Payments ID, \*Stock Payments Type ID, Stock Payment Amount, Payment Date)

STOCK PAYMENT TYPE(Stock Payments Type ID, Stock Payments Type Desc)

ORDER(Order ID, Payment Method, Order Date)

### Order

**ONF**

*ORDER* (OrderID, OrderDate, CustID, Surname, Forename, Street, Town, County, PostCode, TelNo, Stock ID. Stock Desc. Stock Price, Stock Type, Stock Type Desc, Quantity)

**1NF**

*ORDER* (Order ID, Order Date, Cust ID, Surname, Forename, Street, Town, County, PostCode, TelNo)

*ORDER DETAILS* (Order ID, Stock ID, Stock Desc, Stock Price, Stock Type, Stock Type Desc, Quantity)

**2NF**

*ORDER* (Order ID, \*Cust ID, Surname, Forename, Street, Town, County, PostCode, TelNo)

*ORDER DETAILS* (Order ID, Stock ID, Quantity)

*STOCK* (Stock ID, Stock Desc, Stock Type, Stock Type Desc)

**3NF**

*ORDER* (Order ID, Order Date, \*Cust ID)

*ORDER DETAILS* (Order ID, \*Stock ID, Stock Type ID, Stock Price)

*STOCK* (Stock ID, Stock Type ID, Quantity)

*CUSTOMER* (CustID, Surname, FirstName, Street, Town, County, PostCode, TelNo)

*STOCK TYPE* (Stock Type ID, Stock Type, Stock Type Desc)

### Supplier

*SUPPLIER* (Supplier ID, Supplier Name, Supplier Street, Supplier Town, Supplier County, Supplier Postcode, Supplier TelNo)

**ONF**

**SUPPLIER ORDER** (Supplier Order ID, \*Supplier ID, \*Stock ID, Supplier Name, Supplier Street, Supplier Town, Supplier County, Supplier Postcode, Supplier Tel No, Order Date, Dispatch Date, Order Details, Delivered Date, Order Payment, Order Delivery Note)

**1NF**

**SUPPLIERORDER**(Supplier Order ID, Supplier ID, Stock ID, Order Date, Supplier Name, Supplier Street, Supplier Town, Supplier County, Supplier Postcode, Supplier Tel No)

**SUPPLIER ORDER DETAILS(**Supplier Order ID, Stock ID, Dispatch Date, Order Details, Delivered Date, Order Payment, Order Delivery Note)

**2NF**

SUPPLIER ORDER(Supplier Order ID, \*Supplier ID, \*Stock ID, Order Date)

SUPPLIER ORDER DETAILS(Supplier Order ID, \*Stock ID, Dispatch Date, Order Details, Delivered Date, Order Payment, Order Delivery Note)

SUPPLIER(Supplier ID, Supplier Name, Supplier Street, Supplier Town, Supplier County, Supplier Postcode, Supplier TelNo)

### Supplier Invoice

*SUPPLIER INVOICE* (Supplier Invoice No, \*Supplier ID, Supplier Invoice Details, Invoice Date, Supplier Address)

### Supplier Payment

**ONF**

*SUPPLIER PAYMENT*(Supplier Payment No, \*Order ID, \*Payment Method, Supplier

Payment Amount, Payment Date, Payment Confirmation, Supplier Payment Type, Supplier Payment Type Desc)

**1NF**

SUPPLIER PAYMENT(Supplier Payments ID, \*Order ID, Payment Confirmation, Order Date)

SUPPLIER PAYMENTS DETAILS(Supplier Payments ID, Payment Method, Supplier Payment Amount, Payment Date, Supplier Payment Type, Supplier Payments Type Desc)

**2NF**

SUPPLIER PAYMENTS(Supplier Payments ID, \*Order ID, Payment Confirmation, Order Date)

SUPPLIER PAYMENTS DETAILS(Supplier Payments ID, \*Supplier Payments Type ID, Supplier Payment Amount, Payment Date)

SUPPLIER PAYMENT TYPE(Supplier Payments Type ID, Payment Method, Supplier Payments Type Desc)

**3NF**

SUPPLIER PAYMENTS (Supplier Payments ID, \*Order ID, Payment Confirmation, Order Date)

SUPPLIER PAYMENTS DETAILS(Supplier Payments ID,\*Supplier Payments Type ID, Supplier Payment Amount, Payment Date)

SUPPLIER PAYMENT TYPE(Supplier Payments Type ID, Supplier Payments Type Desc)

ORDER(Order ID, Payment Method)

### Courses

**ONF**

*COURSES* (CourseID, CourseStartDate, CourseNoStudents, StudentID, Surname, FirstName, Street, Town, County, PostCode, TelNo, CourseType, CourseTypeDesc, CourseAvailablePlaces, CourseDuration)

**1NF**

*COURSES* (CourseID, Course, CourseStartDate, CourseDuration, CustID, Surname, FirstName, Street, Town, County, PostCode, TelNo)

*COURSE DETAILS*(CourseID, \*CourseTypeID, CourseTypeDesc, CourseAvailablePlaces, CourseDuration)

**2NF**

*COURSES* (CourseID, CourseStartDate, CourseNoStudents, CustID, Surname, FirstName, Street, Town, County, PostCode, TelNo)

*COURSE DETAILS* (CourseID, \*CourseTypeID, CoursesDuration)

*COURSE TYPE* (CourseTypeID, CourseTypeDesc)

**3NF**

*COURSES* (CourseID, CourseStartDate, \*CustID, CourseNoStudents)

*COURSE DETAILS* (CourseID, \*CourseTypeID, CourseDuration)

*COURSE TYPE* (CourseTypeID, CourseTypeDesc)

*CUSTOMER* (CustID, Surname, FirstName, Street, Town, County, PostCode, TelNo)

### Customer Minor Ailments

**ONF**

CUSTOMER MINOR AILMENTS (Minor Ailments ID, Customer ID, Date admitted, Minor Ailments Name, Minor Ailment Type, Minor Ailment Desc, First Name, Surname, Street, Town, County, Postcode, TelNo)

**1NF**

CUSTOMER MINOR AILMENTS (Minor Ailments ID, \*Customer ID, Date admitted, First Name, Surname, Street, Town, County, Postcode, TelNo)

*MINOR AILMENTS* DETAILS(Minor Ailments ID, Minor Ailments Name, Minor Ailment, Minor Ailment Type, Minor Ailment Desc)

**2NF**

CUSTOMER MINOR AILMENTS(Minor Ailments ID, \*Customer ID, Date admitted, First Name, Surname, Street, Town, County, Postcode, TelNo)

MINOR AILMENTS DETAILS(Minor Ailments ID, Minor Ailments Name, Minor Ailment)

MINOR AIMENTS TYPE (Minor Ailments Type ID, Minor Ailments Type Desc)

**3NF**

CUSTOMER MINOR AILMENTS(Minor Ailments ID, \*Customer ID, Date admitted, First Name, Surname, Street, Town, County, Postcode, TelNo)

MINOR AILMENTS DETAILS(Minor Ailments ID, Minor Ailments Name, Minor Ailment)

MINOR AIMENTS TYPE (Minor Ailments Type ID, Minor Ailments Type Desc)

CUSTOMER(Customer ID, First Name, Surname, Street, Town, County, Postcode, TelNo)

### Prescription

**ONF**

*PRESCRIPTION*(Prescription ID, Customer ID, Prescription Date, Prescription Name, Delivery, Recurring Prescription, Prescription Type, Prescription Type Desc, First Name, Surname, Street, Town, County, Postcode, TelNo)

**1NF**

PRESCRIPTION(Prescription ID, \*Customer ID, Prescription Date, First Name, Surname, Street, Town, County, Postcode, TelNo)

PRESCRIPTION (Prescription ID, Prescription Name, Delivery, Recurring Prescription, Prescription Type, Prescription Type Desc)

**2NF**

PRESCRIPTION(Prescription ID, \*Customer ID, Prescription Date)

PRESCRIPTION DETAILS(Prescription ID, \*Prescription Type ID, Prescription Name, Delivery, Recurring Prescription)

PRESCRIPTION TYPE(Prescription Type ID, Prescription Type Desc)

**3NF**

PRESCRIPTION(Prescription ID, \*Customer ID, Prescription Date)

PRESCRIPTION DETAILS(Prescription ID, \*Prescription Type ID, Prescription Name, Delivery, Recurring Prescription)

PRESCRIPTION TYPE(Prescription Type ID, Prescription Type Desc)

CUSTOMER(Customer ID, First Name, Surname, Street, Town, County, Postcode, TelNo)

### Staff

*STAFF* (Staff ID, Staff Forename, Staff Surname, Staff Town, Staff Postcode, Staff Telephone No, Staff Mobile No, Staff Email, Staff Rota)