# EPS database

A close-up of a card

AI-generated content may be incorrect.

0NF

Customer(**CustomerNumber**, Name, Address, City, Province, PostalCode, HomePhone)

1NF

Customer(**CustomerNumber**, FirstName, LastName, Address, City, Province, PostalCode, HomePhone)

2NF

Customer(**CustomerNumber**, FirstName, LastName, Address, City, Province, PostalCode, HomePhone)

3NF

Customer(**CustomerNumber**, FirstName, LastName, Address, City, Province, PostalCode, HomePhone)

A receipt with numbers and letters

AI-generated content may be incorrect.

0NF

Order(**OrderNumber**, CustomerName, CustomerAddress, CustomerPhone, SubTotal, GST, Total, (ItemNumber, Description, Quantity, Price, Amount))

1NF

Order(**OrderNumber**, CustomerFirstName, CustomerLastName, CustomerAddress, CustomerCity, CustomerProvince, CustomerPostalCode, CustomerPhone, SubTotal, GST, Total)

OrderItem (**ItemNumber, *OrderNumber***, Description, Quantity, Price, Amount)

2NF

Order(**OrderNumber**, CustomerFirstName, CustomerLastName, CustomerAddress, CustomerCity, CustomerProvince, CustomerPostalCode, CustomerPhone, SubTotal, GST, Total)

OrderItem (***ItemNumber*, *OrderNumber***, Quantity, HistoricalPrice, Amount)

Item (**ItemNumber,** Description, CurrentPrice)

3NF

Order(**OrderNumber**, *CustomerNumber*, SubTotal, GST, Total)

OrderItem (***ItemNumber*, *OrderNumber***, Quantity, HistoricalPrice, Amount)

Item (**ItemNumber,** Description, CurrentPrice)

NOTE: in this new table, there is NO appropriate attribute and would make a satisfactory primary key. IF this happens, make what is called a “Technical key”. It has no data importance except to uniquely identify the row. Here, we will create a technical key called CustomerNumber.

(**CustomerNumber**, CustomerFirstName, CustomerLastName, CustomerAddress, CustomerCity, CustomerProvince, CustomerPostalCode, CustomerPhone)

***Customer Payments Against Orders***

A close-up of a receipt

AI-generated content may be incorrect.

0NF (initial table)

NOTE: remember you could wait until 3NF to name your tables. In example we will WAIT.

(**OrderNumber**, CustomerName, CustomerNumber, OrderDate, OrderTotal,(PaymentDate, PaymentAmount, PaymentNumber, BalanceOwning PaymentType, DepositBatchNumber))

1NF

(**OrderNumber**, CustomerFirstName, CustomerLastName, CustomerNumber, OrderDate, OrderTotal)

(***OrderNumber*, PaymentNumber,** PaymentDate, PaymentAmount, BalanceOwning, PaymentType, DepositBatchNumber)

2NF

(**OrderNumber**, CustomerFirstName, CustomerLastName, CustomerNumber, OrderDate, OrderTotal)

(***OrderNumber*, PaymentNumber,** PaymentDate, PaymentAmount, BalanceOwning, PaymentType, DepositBatchNumber)

3NF

Remember by the end of this normal form, you need to name your tables.

Order (**OrderNumber**, *CustomerNumber*, OrderDate, OrderTotal)

OrderPayment (***OrderNumber*, PaymentNumber,** PaymentDate, PaymentAmount, BalanceOwning, PaymentType, DepositBatchNumber)

Customer (**CustomerNumber**, CustomerFirstName, CustomerLastName)

**Inventory Control Sheet**

A close-up of a number

AI-generated content may be incorrect.

0NF (initial table)

(**ItemNumber**, ItemDescription, CurrentSalePrice, (OrderDate, SupplierNumber, PONumber, Quantity, Cost), QuantityOnHand, ReorderLevel)

1NF (atomization and removing repeating groups)

(**ItemNumber**, ItemDescription, CurrentSalePrice, QuantityOnHand, ReorderLevel)

(**PONumber**, ***ItemNumber***, OrderDate, SupplierNumber, Quantity, Cost)

2NF (partial dependencies)

(**ItemNumber**, ItemDescription, CurrentSalePrice, QuantityOnHand, ReorderLevel)

(***PONumber***, ***ItemNumber***, Quantity, Cost)

(**PONumber,** OrderDate, SupplierNumber)

3NF (Transitive dependencies)

Item (**ItemNumber**, ItemDescription, CurrentSalePrice, QuantityOnHand, ReorderLevel)

POItem (***PONumber***, ***ItemNumber***, Quantity, Cost)

PurchaseOrder (**PONumber,** OrderDate, SupplierNumber)

Purchase Order

A purchase order with numbers and numbers

AI-generated content may be incorrect.

0NF (initial table)

(**PurchaseOrderNumber**, SupplierNumber, SupplierName, SupplierAddress, SupplierCity, SupplierPhone, Date, (ItemNumber, SupplierItemNumber, SupplierDescription, Qty, Cost, Amount), Subtotal, GST, Total)

1NF

(**PurchaseOrderNumber**, SupplierNumber, SupplierName, SupplierAddress, SupplierCity, SupplierProvince, SupplierPostalCode, SupplierPhone, Date, Subtotal, GST, Total)

(***PurchaseOrderNumber***, **ItemNumber**, SupplierItemNumber, SupplierDescription, Qty, Cost, Amount)

2NF

(**PurchaseOrderNumber**, SupplierNumber, SupplierName, SupplierAddress, SupplierCity, SupplierProvince, SupplierPostalCode, SupplierPhone, Date, Subtotal, GST, Total)

(***PurchaseOrderNumber***, **ItemNumber**, SupplierItemNumber, SupplierDescription, Qty, Cost, Amount)

3NF

(**PurchaseOrderNumber**, *SupplierNumber*, Date, Subtotal, GST, Total)

(***PurchaseOrderNumber***, **ItemNumber**, SupplierItemNumber, SupplierDescription, Qty, Cost, Amount)

(**SupplierNumber**, SupplierName, SupplierAddress, SupplierCity, SupplierProvince, SupplierPostalCode, SupplierPhone)