## **Normalisation:**

		# Tables = 9	# Tables = 14
		Remove repeating groups	Remove key dependencies
	UNF	1NF	2NF
	UNF		
		Report_ID	Report_ID
	Sales	Sales	Sales
	DirectCosts	DirectCosts	DirectCosts
	OverheadCosts	OverheadCosts	OverheadCosts
	StaffID	StaffID*	StaffID*
	FirstName	CL-ff ID	CL-ff ID
	LastName	Staff_ID	Staff_ID
	Dob	FirstName	FirstName
	StreetNumber	LastName	LastName
	Street	Dob	Dob
	City	StreetNumber	StreetNumber
	PostCode	Street	Street
	Country	City	City
	EmailAddress	PostCode	PostCode
	PhoneNumber	Country	Country
	StaffGrade	EmailAddress	EmailAddress
	Department	PhoneNumber	PhoneNumber
	Manager	StaffGrade	PRSINumber
	PRSINumber	Department	CustomerID*
	FirstName	Manager	ReportID*
	LastName	WarehouseID*	StaffGradeID*
	DateOfJoining	PRSINumber	
	Dob	CustomerID*	StaffGrade_ID
_	StreetNumber	ReportID*	StaffGrade
	Street		Department
	City	Customer_ID	Manager
	PostCode	FirstName	WarehouseID*
	Country	LastName	
	PhoneNumber	DateOfJoining	Customer_ID
	EmailAddress	Dob	FirstName
	SatisfactionLevelProduct	StreetNumber	LastName
	SatisfactionLevelSpeed	Street	DateOfJoining
	SatisfactionLevelWebsite	City	Dob
	FrequencyOfPurchase	PostCode	StreetNumber
	DiscountUsage	Country	Street
	PrimeClubMember	PhoneNumber	City
	CardNumber	EmailAddress	PostCode
	PaymentDate	StaffID*	Country
	Amount	OrderID*	PhoneNumber
	OrderDate	ShipperID*	EmailAddress
40	RequiredDate	PaymentsReferenceID*	StaffID*

42 OrderStatus 42 OrderStatus 43 Comments 44 QuantityOrdered 44 QuantityOrdered 45 Price 46 ProductName 46 ProductName 47 ProductDescription 48 StockQuantity 49 Cost 51 Weight 52 Height 55 SupplierName 56 StreetNumber 69 PostCode 60 Country 61 Contact 62 PhoneNumber 63 EmailAddress 65 StreetNumber 65 StreetNumber 66 StreetNumber 66 StreetNumber 67 Street 68 City 69 PostCode 60 Country 71 ShipperTimeEstimate1 70 Street 71 ShipperTimeEstimate1 72 ShipperTimeEstimate2 73 EmailAddress 74 PhoneNumber 74 PhoneNumber 75 Supplier ID 76 Street Number 76 Street Number 77 Street 78 Singpentime 79 PostCode 70 CorderIneNumber 70 Country 70 Contact 70 CorderIneNumber 70 CorderStatus 71 ShipperTimeEstimate1 72 ShipperTimeEstimate2 73 Street 74 PhoneNumber 75 Supplier ID 75 Supplier Name 75 Supplier Name 75 Street 76 Street 77 Street 78 Product ID 79 PostCode 70 Control 70 CorderStatus 70 CorderIneNumber 71 ShipperTimeEstimate1 72 ShipperTimeEstimate1 73 Street 74 PhoneNumber 75 Supplier ID 76 Street 76 Street 77 Street 78 Supplier ID 78 ShipperTimeEstimate2 78 FamMumber 79 PostCode 79 Country 70 Contact 70 Country 70 Contact 71 ShipperTimeEstimate2 73 EmailAddress 74 PhoneNumber 75 ShipperTimeEstimate2 76 Shipper ID 77 Street 78 ShipperTimeEstimate2 79 PostCode 79 Country 70 Contact 70 Country 70 Contact 70 AmountID 70 Contact 70 Country 70 Contact 70 Country 71 ShipperTimeEstimate2 72 ShipperTimeStimate3 73 Freet 74 ProductID* 75 ShipperTimeStimate3 76 ProductID* 77 StockQuantity 77 Contact 78 AmountID 79 ShipperTime 79 StockQuantity 70 CorderID* 71 ShipperTime 71 ShipperTime 72 ShipperTime 74 ProductID 75 StockQuantity 75 StockQuantity 76 CorderID* 76 ShipperTime 77 StockQuantity 7	41 Chinned Data		OrdorlD*
43 Comments  44 QuantityOrdered  45 Price  Amount  46 ProductName  CustomerID*  5atisfaction ID  6atisfaction ID  6atisfactio	41 ShippedDate	Daymanta Dafarranca ID	OrderID*
44 QuantityOrdered   45 Price   46 ProductName   46 ProductDescription   47 ProductDescription   48 StockQuantity   49 Cost   50 SalesPrice   51 Weight   52 Height   53 Length   54 Width   55 SupplierName   56 StreetNumber   57 Street   59 PostCode   60 Country   55 ShipperName   56 StreetNumber   57 Street   58 EmilAddress   59 ProductDescription   50 SalesPrice   50 RequiredDate   51 Weight   52 Height   53 Length   54 Width   55 SupplierName   56 StreetNumber   57 Street   58 City   59 PostCode   50 Country   50 SalesPrice   51 Weight   52 Height   53 Length   54 Width   55 SupplierName   56 StreetNumber   56 Ocountry   57 Street   58 City   59 PostCode   50 Country   50 SemailAddress   51 Condect   52 PhoneNumber   53 Length   54 StreetNumber   55 ShipperImeEstimate1   56 Ocountry   57 Street   58 City   59 ProductDescription   59 PostCode   50 StreetNumber   51 Condect   52 PhoneNumber   53 Length   54 StreetNumber   55 ShipperImeEstimate1   56 StreetNumber   57 Street   57 Street   58 City   59 PostCode   50 Comments   50 StreetNumber   51 Condect   52 ShipperImeEstimate2   53 Length   54 ProductID*   55 ShipperImeEstimate2   56 StreetNumber   57 Street   58 City   59 PostCode   50 PostCode   50 PostCode   50 PostCode   50 PostCode   51 Condect   52 ShipperImeEstimate2   53 Length   54 ProductID*   55 ShipperImeEstimate2   54 PhoneNumber   55 ShipperImeStimate   55 ShipperID*   55 ShipperID*   55 StockQuantity   56 Street   57 Street   58 City   59 PostCode   59 PostCode   50 PostCod			• •
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46 ProductName   CustomerID*   Satisfaction ID   47 ProductDescription   SatisfactionLevelProduct   48 StockQuantity   Order ID   SatisfactionLevelProduct   48 StockQuantity   OrderDate   SatisfactionLevelWebsite   50 SalesPrice   RequiredDate   FrequencyOfPurchase   51 Weight   CustomerID*   DiscountUsage   52 Height   OrderIneNumberID*   PrimeClubMember   53 Length   OrderStatusID*   CustomerID*   54 Width   55 SupplierName   OrderLineNumber ID   Order ID   56 StreetNumber   QuantityOrdered   OrderDate   57 Street   Price   RequiredDate   58 City   ProductID*   CustomerID*   59 PostCode   OrderID*   OrderLineNumberID*   60 Country   OrderStatusID*   61 Contact   Product ID   62 PhoneNumber   ProductName   OrderStatusID   63 EmailAddress   ProductDescription   ShippedDate   64 RTMNumber   StockQuantity   OrderStatus   65 StreetNumber   SalesPrice   OrderID*   66 StreetNumber   SalesPrice   OrderID*   67 Street   Weight   68 City   Height   OrderIneNumber ID   69 PostCode   Length   QuantityOrdered   70 Country   Width   Price   71 ShipperTimeEstimate1   OrderID*   ProductID*   72 ShipperTimeEstimate2   SupplierID*   OrderID*   73 EmailAddress   OrderlineNumberID*   74 PhoneNumber   Supplier ID   CardNumber   75 Street   AmountID   76 SupplierName   PaymentSReference ID   77 Country   AmountID   78 Country   AmountID   79 PostCode   PaymentsReference ID   79 Country   AmountID   70 Contact   Amount   70 PhoneNumber   ProductID   71 ShipperID*   StockQuantity   71 ShipperID*   StockQuantity   72 ShipperID*   StockQuantity   73 EmailAddress   RTMNumber   Product ID   74 ShipperID*   StockQuantity   75 Cost   SalesPrice   SalesPrice   SalesPrice   76 StockQuantity   ProductID   77 Street   StockQuantity   78 StockQuantity   ProductID   88 StockQuantity   ProductID   89 StockQuantity   ProductID   80 StockQuantity   ProductID   80 StockQuantity   ProductID   80 StockQuantity   ProductID   80 StockQuantity   ProductID   81 StockQuantity   ProductID   81 StockQuantity   ProductID   81 StockQuantity   ProductID   Sale	•	•	SatisfactioniD*
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58 City ProductID* CustomerID* 59 PostCode OrderID* OrderLineNumberID* 60 Country OrderStatusID* 61 Contact Product ID 62 PhoneNumber ProductName OrderStatus ID 63 EmailAddress ProductDescription ShippedDate 64 RTMNumber StockQuantity OrderStatus 65 ShipperName Cost Comments 66 StreetNumber SalesPrice OrderID* 67 Street Weight 68 City Height OrderLineNumber ID 69 PostCode Length QuantityOrdered 70 Country Width Price 71 ShipperTimeEstimate1 OrderID* OrderID* 72 ShipperTimeEstimate2 SupplierID* OrderID* 73 EmailAddress OrderlineNumberID* 74 PhoneNumber Supplier ID CardNumber 75 Street AmountID* 76 StreetNumber CustomerID* 77 Street AmountID* 78 Country AmountID 79 Contact Amount PhoneNumber PaymentsReference ID 70 Country PostCode PaymentsReference ID 71 ShipperTimeEstimate StreetNumber PaymentsReference ID 72 ShipperTimeEstimate StreetNumber PaymentsReference ID 73 EmailAddress PaymentSeference ID 74 PhoneNumber PaymentsReference ID 75 Street AmountID* 76 Country AmountID 77 Contact Amount PhoneNumber PaymentsReference ID 78 EmailAddress RTMNumber Product ID 79 StockQuantity Product ID 79 ShipperID* StockQuantity ProductID* 79 SalesPrice 79 SalesPrice 70 Cost 71 Shipper ID OrderID*	56 StreetNumber	QuantityOrdered	OrderDate
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65 ShipperName 66 StreetNumber 66 StreetNumber 67 Street 68 City 69 PostCode 70 Country 71 ShipperTimeEstimate1 72 ShipperTimeEstimate2 73 EmailAddress 74 PhoneNumber  Supplier ID SupplierName Street  AmountID*  Country PostCode  Country  SupplierName Street  AmountID*  Country  PostCode  Country  SupplierName Street  AmountID  Country  PostCode  Country  PostCode  Country  PostCode  Country  AmountID  Contact  Amount  PhoneNumber  EmailAddress  RTMNumber  StockQuantity  ProductID*  Cost  SalesPrice  Shipper ID  CorderID*	63 EmailAddress	ProductDescription	ShippedDate
65 ShipperName Cost OrderID* 66 StreetNumber SalesPrice OrderID* 67 Street Weight 68 City Height OrderLineNumber ID 69 PostCode Length QuantityOrdered 70 Country Width Price 71 ShipperTimeEstimate1 OrderID* 72 ShipperTimeEstimate2 SupplierID* OrderID* 73 EmailAddress OrderlineNumberID* 74 PhoneNumber PaymentSReference ID	64 RTMNumber	StockQuantity	OrderStatus
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73 EmailAddress 74 PhoneNumber  Supplier ID SupplierName StreetNumber CustomerID*  City PostCode Country Contact PhoneNumber EmailAddress RTMNumber ShipperID* Shipper ID Supplier ID CardNumber CustomerID* AmountID* Coty PaymentsReference ID AmountID Contact Amount PhoneNumber EmailAddress RTMNumber ShipperID* Cost SalesPrice Shipper ID OrderID*			
74 PhoneNumber  Supplier_ID SupplierName SupplierName PaymentDate StreetNumber CustomerID* Street AmountID* City PostCode Country AmountID Contact PhoneNumber EmailAddress RTMNumber ShipperID* StockQuantity ProductID* Shipper_ID Shipper_ID OrderID*		• •	ordens.
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Street AmountID*  City  PostCode PaymentsReference ID  Country AmountID  Contact Amount  PhoneNumber PaymentsReferenceID*  EmailAddress  RTMNumber Product ID  ShipperID* StockQuantity  ProductID* Cost  SalesPrice  Shipper_ID OrderID*		• •	•
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PostCode Country AmountID Contact PhoneNumber EmailAddress RTMNumber ShipperID* Shipper_ID Shipper_ID PaymentsReference ID Amount PaymentsReferenceID* StockQuantity Cost SalesPrice OrderID*			Amountib
Country Contact Amount PhoneNumber PaymentsReferenceID*  EmailAddress RTMNumber ShipperID* StockQuantity ProductID* Cost SalesPrice Shipper_ID OrderID*		•	Douments Defenses and ID
Contact Amount PhoneNumber PaymentsReferenceID*  EmailAddress  RTMNumber Product ID  ShipperID* StockQuantity ProductID* Cost SalesPrice  Shipper_ID OrderID*			
PhoneNumber  EmailAddress  RTMNumber  ShipperID*  Product ID  StockQuantity  Cost  SalesPrice  Shipper_ID  OrderID*		•	
EmailAddress  RTMNumber  ShipperID*  Product ID  StockQuantity  ProductID*  Cost  SalesPrice  Shipper ID  OrderID*			
RTMNumber Product ID  ShipperID* StockQuantity  ProductID* Cost  SalesPrice  Shipper_ID OrderID*			PaymentsketerenceID*
ShipperID*  ProductID*  Cost  SalesPrice  Shipper_ID  OrderID*			Duradicat ID
ProductID* Cost SalesPrice Shipper_ID OrderID*			<u> </u>
SalesPrice Shipper_ID OrderID*		• •	·
<u>Shipper_ID</u> OrderID*		ProductID*	
<del></del>		<b>-1.1</b>	
ShipperName SupplierID*			
	I	ShipperName	SupplierID*

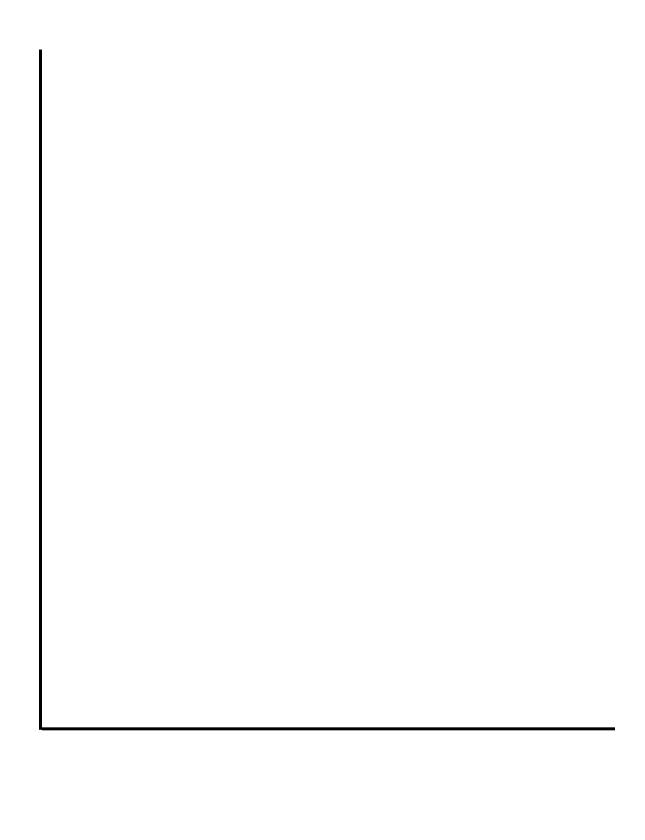
StreetNumber OrderlineNumberID\*
Street ProductDescriptionID\*

City

PostCode <u>ProductDescription\_ID</u>

Country ProductName
ShipperTimeEstimate1 ProductDescription

ShipperTimeEstimate2 Weight
EmailAddress Height
PhoneNumber Length
SupplierID\* Width
CustomerID\* ProductID\*



# Tables = 23 # Tables = 23

Remove non-key dependencies

Table

3NF Name

Report\_ID Reporting

Sales

StaffID\*

DirectCosts OverheadCosts

Staff\_ID Staff

EmailAddress
PhoneNumber
CustomerID\*
ReportID\*
StaffGradeID\*
PRSINumberID\*

PRSINumber ID PRSI

FirstName LastName Dob

StreetNumber

Street City PostCode Country StaffID\*

<u>StaffGrade\_ID</u> StaffGrade

StaffGrade
Department
WarehouseID\*
DepartmentID\*
StaffID\*

**Department ID** StaffDepartment

Manager StaffGradeID\*

<u>Customer\_ID</u> Customer

FirstName
LastName
DateOfJoining

Dob

StreetNumber Street City PostCode Country PhoneNumber **EmailAddress** StaffID\* OrderID\* ShipperID\* PaymentsReferenceID\* SatisfactionID\* Satisfaction\_ID Satisfaction  ${\bf Satisfaction Level Product}$ SatisfactionLevelSpeed SatisfactionLevelWebsite PrimeClubMember CustomerID\* UsageOfDiscountID\* PurchaseFrequencyID\* UsageOfDiscount\_ID PurchaseFrequency PurchaseFrequency\_ID FrequencyOfPurchase SatisfactionID\* UsageOfDiscount\_ID Discount DiscountUsage SatisfactionID\* Order ID Order OrderDate RequiredDate CustomerID\* OrderLineNumberID\* OrderStatusID\* DateRequiredID\* DateRequired\_ID DeliveryDate RequiredDate OrderID\* OrderStatus\_ID OrderStatus ShippedDate

OrderStatus

Comments

OrderID\*

OrderLineNumber\_ID OrderDetails

QuantityOrdered

Price

ProductID\*

OrderID\*

PaymentsReference\_ID

**PaymentDetails** 

CardNumber PaymentDate CustomerID\*

PaymentsReferenceID\*

AmountID\*

<u>Supplier ID</u> <u>PaymentsReference II</u> OrderValue

SupplierName <u>Amount ID</u>
StreetNumber Amount

Street PaymentsReferenceID\*

City

PostCode <u>Product ID</u> ProductInFigures

Country StockQuantity

Contact Cost
PhoneNumber SalesPrice
EmailAddress OrderID\*
RTMNumber SupplierID\*

ShipperID\* OrderlineNumberID\*
ProductID\* ProductDescriptionID\*

ProductID\*

Shipper IDPriceSoldID\*ShipperNameProductNameID\*

StreetNumber

Street PriceSold\_ID SalesPrice

City SalesPrice PostCode ProductID\*

Country

CustomerID\*

**ProductDescription\_ID** ProductDescription

ProductDescription

Weight Height Length Width

ProductNameID\* ProductID\*

Supplier ID Suppliers

SupplierName

StreetNumber

Street

City

PostCode

Country

Contact

PhoneNumber

EmailAddress

ShipperID\*

ProductID\*

RTMID\*

EstimateToDeliverID\*

## Shipper\_ID

DeliveryCompany

ShipperName

StreetNumber

Street

City

PostCode

Country

EmailAddress

PhoneNumber

SupplierID\*

CustomerID\*

EstimateToDeliverID\*

## **EstimateToDeliver\_ID** DeliveryEstimates

ShipperTimeEstimate1

ShipperTimeEstimate2

SupplierID\*

## RTM\_ID

RTMs

RTMNumber

SupplierID\*