

UNF (The Big List)	1NF (No Repeats)	2NF (Remove Parts)	3NF (Final Polish)
OrderNO	OrderNO (PK)	Table: Orders	Table: Customers
orderDate	ISBN (PK)	OrderNO (PK)	CustomerId (PK)
CustomerId	orderDate	orderDate	Title, FirstName, LastName
Title	CustomerId	CustomerId, Title	Address, Town, Country
FirstName	Title	FirstName, LastName	PostCode, Telephone
LastName	FirstName	Address, Town	
Address	LastName	Country, PostCode	Table: Orders
Town	Address	Telephone	OrderNO (PK)
Country	Town		orderDate
PostCode	Country	Table: OrderItems	<i>CustomerId (FK)</i>
Telephone	PostCode	OrderNO (FK)	

BookID	Telephone	ISBN (FK)	Table: Books
ISBN	Book Title	Qty	ISBN (PK)
Book Title	Author		Book Title, Author
Author	Publisher	Table: Books	Publisher, Price
Publisher	Price	ISBN (PK)	
Price	QTY	Book Title, Author	Table: OrderLines
Qty		Publisher, Price	OrderNO (FK), ISBN (FK)
			Qty

UNF	1NF (Atomic Data)	2NF (Remove Partial Dep.)	3NF (Remove Transitive Dep.)
Student Reg No	<u>Student Reg No</u> (PK)	Table: Student_Course	Table: Student
Surname	<u>Course Title</u> (PK)	<u>Student Reg No</u> (PK)	<u>Student Reg No</u> (PK)
Forename	Surname	<u>Course Title</u> (PK)	Surname, Forename
Address	Forename	Start Date, End Date	Address, Town
Town	Address	Outcome	Country, Post Code
Country	Town		Telephone Number
Post Code	Country	Table: Students	
Telephone Number	Post Code	<u>Student Reg No</u> (PK)	Table: Courses
Course Title	Telephone Number	Surname, Forename	<u>Course Title</u> (PK)
Course Tutor	Start Date	Address, Town	Course Fee

Tutor Staff Room	End Date	Country, Post Code	<i>Tutor ID</i> (FK)
Tutor Telephone	Outcome	Telephone Number	
Start Date	Course Fee		Table: Tutors
End Date	Course Tutor	Table: Courses	<u>Tutor ID</u> (PK)
Course Fee	Tutor Staff Room	<u>Course Title</u> (PK)	Course Tutor (Name)
Outcome	Tutor Telephone	Course Fee	Tutor Staff Room
		Course Tutor	Tutor Telephone
		Tutor Staff Room	
		Tutor Telephone	Table: Enrollment
			<u>Student Reg No</u> (FK)
			<u>Course Title</u> (FK)
			Start Date, End Date

			Outcome
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UNF	1NF (No Repeating Groups)	2NF (No Partial Dependencies)	3NF (No Transitive Dependencies)
Customer Account No	<u>Cust Account No</u>(PK)	Table: Customer	Table: Customer
Customer Name	<u>Holiday Ref No</u>(PK)	<u>Cust Account No</u>(PK)	<u>Cust Account No</u> (PK)
Customer Address	Customer Name	Customer Name	Customer Name
Customer Tel No	Customer Address	Customer Address	Customer Address
Holiday Reference No	Customer Tel No	Customer Tel No	Customer Tel No

Booking Date	Booking Date		
Hotel Name	Hotel Name	Table: Holiday	Table: Flight
Holiday Resort	Holiday Resort	<u>Holiday Ref No</u> (PK)	<u>Flight No</u> (PK)
Flight No	Flight No	Hotel Name	Departure Airport
Departure Airport	Departure Airport	Holiday Resort	Arrival Airport
Arrival Airport	Arrival Airport	Flight No	
Departure Date	Departure Date	Departure Airport	Table: Holiday/Hotel
Return Date	Return Date	Arrival Airport	<u>Holiday Ref No</u> (PK)
		Departure Date	Hotel Name
		Return Date	Holiday Resort
			<i>Flight No (FK)</i>
		Table: Booking	

		<u>Cust Account No</u>(FK)	Table: Booking
		<u>Holiday Ref No</u> (FK)	<u>Cust Account No</u> (FK)
		Booking Date	<u>Holiday Ref No</u> (FK)
			Booking Date
			Departure Date
			Return Date

UNF	1NF (Atomic Data)	2NF (No Partial Dep.)	3NF (Final Polish)
Employee Id	<u>Employee Id</u> (PK)	Table: Employee	Table: Employee
First Name	<u>Project Id</u> (PK)	<u>Employee Id</u> (PK)	<u>Employee Id</u> (PK)
Surname	First Name	First Name, Surname	First Name, Surname
Date of Birth	Surname	Date of Birth	Date of Birth
Employee Start Date	Date of Birth	Emp Start Date	Emp Start Date
Site Name	Emp Start Date	Site Name	Site Name (FK)
Site Address	Site Name	Site Address	Dept ID (FK)
Site Post Code	Site Address	Site Post Code	
Room NO	Site Post Code	Room NO, Room Ext	Table: Site
Room Ext:	Room NO	Dept ID	<u>Site Name</u> (PK)
Department ID	Room Ext		Site Address

Project Id	Dept ID	Table: Projects	Site Post Code
Project Name	<u>Project Id</u> (PK)	<u>Project Id</u> (PK)	
Hourly Rate	Project Name	Project Name	Table: Department
Number of Hours	Hourly Rate	Hourly Rate	<u>Dept ID</u> (PK)
Cost Centre ID	Cost Centre ID	Cost Centre ID	Cost Centre Name
Cost centre Name	Cost Centre Name	Cost Centre Name	<i>Cost Centre ID</i> (FK)
	Number of Hours		
		Table: Project_Work	Table: Project
		<u>Employee Id</u> (FK)	<u>Project Id</u> (PK)
		<u>Project Id</u> (FK)	Project Name
		Number of Hours	Hourly Rate

			Table: Project_Work
			<u>Employee Id</u> (FK)
			<u>Project Id</u> (FK)
			Number of Hours