Lab 08 – Normalization (UNF, 1NF)

Luca Novello
038515003

QUESTION:

For the following User View, determine the UNF and the 1NF and hand in this page to your instructor.

Premiere Corporation Order Detail Report

Order Number	Order Date	Cust number	Part Number	Part Desc	Number Ordered	Quoted Price	Total
12489	2016-09-02	124	AX12	Iron	11	14.95	164.45
12491	2016-09-02	311	BT04	GasGrill	1	149.99	149.99
			BZ66	Washer	2	399.99	799.98
12494	2016-09-04	315	CB03	Bike	4	279.99	1,119.96
12495	2016-09-04	256	CX11	Blender	2	22.95	45.90
12498	2016-09-05	522	AZ52	Dartboard	2	12.95	25.90
			BA74	Basketball	4	24.95	99.80
12500	2016-09-05	124	BT04	GasGrill	3	149.99	449.97
12504	2016-09-05	522	CZ81	Treadmill	2	325.99	651.98

ANSWER:

Step 1: Create UNF Relation from a User View

Attributes:

- Order Number
- Order Date
- Customer Number
- Part Number
- Part Description
- Number Ordered
- Quoted Price
- Total (calculated value from Number Ordered * Quoted Price)

Appropriate Name: ORDER_DETAIL

Primary Key: OrderNo

UNF: ORDER_DETAIL [OrderNo, OrderDate, CustNo, PartNo, PartDesc, NumberOrdered, QuotedPrice]

Step 2: Recognize Multi-valued Dependencies

UNF: ORDER_DETAIL [OrderNo, OrderDate, CustNo, (PartNo, PartDesc, NumberOrdered, QuotedPrice)]

Step 3: Create 1NF relations from UNF

1NF :

ORDER_DETAIL [OrderNo, OrderDate, CustNo]

ORDER_PART_DETAIL [OrderNo, PartNo, PartDesc, NumberOrdered, QuotedPrice]