

# Lab 09 – Normalization

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**Purpose-** DBS211\_LAB09\_Normalization

## Lab 09 Submission:

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

**UNF:**

**Data represent-** Each line of the table represents details about one specific order.

**Attributes of the table-** Order Number, Order Date, Cust number, Part Number, Part Desc, Number Ordered, Quoted Price, Total.

**Name of relation-** ORDERS.

**DBDL:** ORDERS [OrderNo, OrderDate, CustNo, PartNum, PartDesc, NumOrdered, QuotedPrice, Total ]

**Problems:** The table has multi-valued dependencies ( each order has multiple part items ).

**1NF:****Step 1:** Identify multi-valued dependencies.ORDERS [OrderNo, OrderDate, CustNo, NumOrdered, Total ( PartNum, PartDesc, QuotedPrice )]**Step 2:** Create 1NF by identifying the primary key for the repeat group.ORDERS [OrderNo, OrderDate, CustNo, NumOrdered, Total (PartNum, PartDesc, QuotedPrice )]**Step 3:** Rewrite DBDLORDERS [OrderNo, PartNum, OrderDate, CustNo, NumOrdered, Total, PartDesc, QuotedPrice.

## ORDERS

OrderNo	PartNo	OrderDate	CustNo	NumOrdered	Total	PartDesc	QuotedPrice
12489	AX12	2016-09-02	124	11	164.45	Iron	14.95
12491	BT04	2016-09-02	311	1	149.99	GasGrill	149.99
12491	BZ66	2016-09-02	311	2	799.98	Washer	399.99
12494	CB03	2016-09-04	315	4	1,119.96	Bike	279.99
12495	CX11	2016-09-04	256	2	45.90	Blender	22.95
12498	AZ52	2016-09-05	522	2	25.90	Dartboard	12.95
12498	BA74	2016-09-05	522	4	99.80	Basketball	24.95
12500	BT04	2016-09-05	124	3	449.97	GasGrill	149.99
12504	CZ81	2016-09-05	522	2	651.98	Treadmill	325.99