

Lab 09 – Normalization

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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 the details about one order.

Attributes includes: order number, order date, customer number, part number, part desc, number ordered, unit price, and total price.

Name of relation: ORDERS

DBDL: ORDERS [OrderNo, OrderDate, CustNo, PartNum, PartDesc, NumOrdered, UnitPrice, TotalPrice]

Problems: 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, UnitPrice)]

Step 2: create 1NF by identify primary key for repeat group

ORDERS [OrderNo, OrderDate, CustNo, NumOrdered, Total (PartNum, PartDesc, UnitPrice)]

Step 3: rewrite DBDL

ORDERS [OrderNo, PartNum, OrderDate, CustNo, NumOrdered, Total, PartDesc, UnitPrice)]

ORDERS

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