**Lab 08 – Normalization**

**(UNF, 1NF)**

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**Lab 08 Submission only this part needs to be submitted:**

**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:** andexplain briefly why you think it is in UNF

UNF=> Order [ OrderNum, OrdereDate, CustNum, (PartNum, PartDesc, NumOrdered, Price)]

Because the properties in the parenthesis are multi-valued, this representation is in UNF format. For example, the buyer will receive two parts with PartNum BT04 and BZ66, PartDesc GasGrill and Washer, NumOrdered 1 and 2, and Price 149.99 and 399.99 for OrderNum 12491. In this example, the characteristics PartNum, GasGrill, NumOrdered, and Price will all be multi-valued.

**1NF:** andexplain briefly why you think it is in 1NF

1NF=> Order [ OrderNum, PartNum, OrderDate, CustNum, PartDesc, NumOrdered, Price]

Unlike UNF, there are no multi-valued attributes in this representation. PartNum will be displayed separately in this case, with OrderNum, Date, and CustNum being repeated. However, there will be no Primary Key in this representation since every attribute will have repeated values, and a primary key can never have repeating values.