**Lab 10 – Normalization**

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**Lab 10 Submission:**

**For the following User View, determine the 1, 2 and 3NF and hand in this page to your instructor. The UNF relation has been provided.**

**Premiere Corporation**

**Order Detail Report**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Order Number** | **Order Date** | **Cust Number** | **Cust Last Name** | **Part Number** | **Part Desc** | **Qnty Ordered** | **Quoted Price** |
| 12489 | 2016-09-02 124 | 124 | Adams | AX12 | Iron | 11 | 14.95 |
| 12491 | 2016-09-02 311 | 311 | Charles | BT04 | GasGrill | 3 | 440.00 |
| BZ66 | Washer | 1 | 399.99 |
| CX11 | MiniBlender | 1 | 11.98 |
| 12494 | 2016-09-04 | 315 | Daniels | CB03 | Bike | 4 | 279.96 |
| 12495 | 2016-09-04 | 256 | Samuels | CX11 | MiniBlender | 2 | 23.96 |
| 12498 | 2016-09-05 | 522 | Nelson | AZ52 | Dartboard | 2 | 12.96 |
| BA74 | Basketbal | 4 | 24.96 |
| 12500 | 2016-09-05 | 124 | Adams | BT04 | GasGrill | 1 | 149.99 |
| 12504 | 2016-09-05 | 522 | Nelson | CZ81 | Treadmill | 2 | 325.98 |

**UNF:**

**Order** [OrderNo, Orderdate, CustNo, CustLname, (PartNo, PartDesc, QtyOrd, Price)]

**1NF:**

**ORDERS**[OrderNo, PartNo, Orderdate, CustNo, CustLname, PartDesc, QtyOrd, Price]

**2NF:**

OrderDate is determined by OrderNo

**ORDERS**[OrderNo, OrderDate]

CustLName is determined by CustNo

**CUSTOMERS**[CustNo, CustLName]

**CUST\_ORDERS**[FK CustNo, FK OrderNo]

PartNo, PartDesc, QtyOrd and Price is determined by OrderNo.

**ORDER\_DETAILS**[ FK OrderNo, PartNo, PartDesc, QtyOrd, Price]

**3NF:**

OrderDate is determined by OrderNo

**ORDERS**[OrderNo, OrderDate]

CustLName is determined by CustNo

**CUSTOMERS**[CustNo, CustLName]

**CUST\_ORDERS**[FK CustNo, FK OrderNo]

QtyOrd and Price is determined by both OrderNo and PartNo [The price here is not the unit price hence it is determined by both)

**ORDER\_DETAILS**[ FK OrderNo, FK PartNo, QtyOrd, Price]

PartDesc is determined by PartNo

**PARTS**[PartNo, PartDesc]