**Lab 09 – Normalization**

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***Lab09 DBS211-NBB***

**QUESTION 1**

Examine the following report:

**Premiere Corporation Parts List**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Part Number** | **Part Description** | **Qnty On Hand** | **Class** | **Warehouse**  **On Hand** | **Price** |
| AX12 | Iron | 104 | HW | 3 | 24.95 |
| AZ52 | Dartboard | 20 | SG | 2 | 12.95 |
| BA74 | Basketball | 40 | SG | 1 | 29.95 |
| BH22 | Cornpopper | 95 | HW | 3 | 24.95 |
| BT04 | GasGrill | 11 | AP | 2 | 149.99 |
| BZ66 | Washer | 52 | AP | 3 | 399.99 |
| CA14 | Griddle | 78 | HW | 3 | 39.99 |
| CB03 | Bike | 44 | SG | 1 | 299.99 |
| CX11 | Blender | 112 | HW | 3 | 22.95 |
| CZ81 | Treadmill | 68 | SG | 2 | 349.95 |

1. What type of data does each line in the report represent?

Each line in the report represents data about a specific part in Premiere Corporation's inventory. This data includes the part's identification, description, quantity available, classification, location (warehouse), and price.

**B.)** What attributes can you identify from the user view?

Part Number

Part Description

Quantity On Hand

Class

Warehouse

Price

1. What would be a suitable name for the UNF relation?

The suitable name for the UNF relation would be "PartsList".

1. Which attribute would be suitable as a primary key?

The attribute suitable as a primary key is "Part Number", as it uniquely identifies each part in the list.

**E.)** Describe the UNF relation using DBDL:

PartsList [ PartNo (PK), PartDesc, QtyOnHand, Class, Warehouse, Price ]

**QUESTION 2**

**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:**

**ORDER\_DETAILS [ OrderNo, OrderDate, CustNo, PartNo, PartDesc, NumOrdered, QuotedPrice, Total ]**

**1NF:**

**ORDER\_DETAILS\_1NF [ OrderNo (PK), PartNo (PK), OrderDate, CustNo, PartDesc, NumOrdered, QuotedPrice, Total ]**