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| Week 9 Assignment | This assignment will focus on Smart design of tables.  Maziar Shajari  Database Management |

**Instructions:**

* Do not submit .**zip** files. Submit only text files (MS Word is preferred).

1. We want to design a database for the ‘Good News Grocers’ table. You must do it step by step and present each table at UNF, 1st, 2nd, and 3rd normal forms.

**Good News Grocers**

**User View 1 - Price Update List**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | **Product**  **Code** | **Aisle**  **Number** | **Price** | **Unit of Measure** |
| Produce | 4081 | 1 | 0.35 | lb |
| Produce | 4027 | 1 | 0.90 | ea |
| Produce | 4108 | 1 | 1.99 | lb |
|  |  |  |  |  |
| Butcher | 331100 | 5 | 1.50 | lb |
| Butcher | 331105 | 5 | 2.40 | lb |
| Butcher | 332110 | 5 | 5.00 | lb |
|  |  |  |  |  |
| Freezer | 411100 | 6 | 1.00 | ea |
| Freezer | 521101 | 6 | 1.00 | ea |
| Freezer | 866503 | 6 | 5.00 | ea |
| Freezer | 866504 | 6 | 5.00 | ea |

This report is used by the department managers to update the prices that are displayed in the grocery store for these products.

UNF  
 The table already matches the first normal form (1NF), so, this table does not match the un-normalized form (UNF).

1NF



2NF



3NF  
  


2- The Gill Art Gallery wishes to maintain data on their customers, artists and paintings. They may have several paintings by each artist in the gallery at one time. Paintings may be bought and sold several times. In other words, the gallery may sell a painting, then buy it back at a later date and sell it to another customer.

**Gallery Customer History Form**

Customer Name

Jackson, Elizabeth Phone (206) 284-6783

123 – 4th Avenue

Fonthill, ON

L3J 4S4

Purchases Made

Artist Title Purchase Date Sales Price

03 - Carol Channing Laugh with Teeth 09/17/2000 7000.00

15 - Dennis Frings South toward Emerald Sea 05/11/2000 1800.00

03 - Carol Channing At the Movies 02/14/2002 5550.00

15 - Dennis Frings South toward Emerald Sea 07/15/2003 2200.00

UNF:



1NF:



2NF:



3NF:



3 - This is all we have about an invoice in an animal hospital. Design smart data step by step.

**INVOICE**

HILLTOP ANIMAL HOSPITAL DATE: JAN 13/2002

INVOICE # 987

MR. RICHARD COOK

123 THIS STREET

MY CITY, ONTARIO

Z5Z 6G6

PET PROCEDURE AMOUNT

ROVER RABIES VACCINATION 30.00

MORRIS RABIES VACCINATION 24.00

TOTAL 54.00

TAX (8%) 4.32

AMOUNT OWING 58.32

UNF:



1NF:



2NF:



3NF:

