 Stuff B Gone

Consignment Services

#### Objectives

1. Produce an ERD in 3NF from source documents and client input.
2. Demonstrate initial table, first, second, and third normal forms by showing the database tables as they exist in each of the three normal forms.
3. Merge ERDs from different views to create one final merged ERD.

#### Requirements

Given the source documents and company description create a database design demonstrating the concept of normalization, showing all the attributes as they exist in the initial table, 1NF, 2NF, and 3NF. You will do this for each of the three views and create an ERD for each view in 3NF, as well as the final merged ERD.

#### The Company

Stuff B Gone is a company that sells customers items for them. In return for this service, they collect a fee for each item they sell for the customer. Currently Stuff B Gone sells customers items through physical stores, Facebook groups/Marketplace, and Kijiji.

As an incentive to thank repeat customers, they have a reward program where customers can get discounts on their consignments.

To provide the best experience for the customers, all staff can take training where they can improve their skills.

**Consignment Agreement View (7 marks)**

Consignment ID: 255

Consignment ID: 255

**Consignment ID**: 255 **Date**: Jan 20, 2022

Consignment ID: 255

**Staff ID:** 12

**Staff Name:** Suzy Sellalot

**Customer ID**: 221

**Customer Name**: Bob Hoarder

**Sub Total:** $11.00

**Rewards Discount:** $1.10

**GST:** $0.50

**Total:** $10.40

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Line #** | **Description** | **Start**  **Price** | **Low**  **Price** | **Category**  **Code** | **Category**  **Description** | **Category**  **Cost** |
| 1 | Gold watch | $100.00 | $80.00 | 1 | Jewelry | $2.00 |
| 2 | Television | $150.00 | $120.00 | 2 | Electronics | $5.00 |
| 3 | PlayStation 2 | $80.00 | $50.00 | 6 | Games | $3.00 |
| 4 | Bicycle | $65.00 | $45.00 | 4 | Recreation | $1.00 |

* A Consignment agreement is the information that Stuff B Gone collects from the customer to be able to sell their items for them.
* While the customer will receive the full selling price of their items, they are charged by Stuff B Gone for their services. The amount that Stuff B Gone charges for selling the customers’ items for them depends on the category the item is in. For example, if the category cost for an item is $2.00 then the charge will be $2.00 to sell that item for the customer. Examples of Categories are electronics, jewellery, etc.
* The category cost may change over time, so Stuff B Gone wants to record the category cost for each consignment (historical information) as well as record the current category cost.
* Line # identifies each item on a particular consignment.
* Start Price and Low Price are the starting selling price for the item and Low Price is the lowest price that the customer is willing to sell the item for.
* Only one staff member works on a consignment.

**Staff Training View (6 marks)**

**Type ID:** 2

**Type Name:** Sales

**Staff ID:** 12

**Staff Name:** Suzy Sellalot

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Training ID** | **Description** | **Start Date** | **End Date** | **Pass/Fail** |
| 432 | Sales 101 | Jan 20 2022 | Jan 23 2022 | Pass |
| 443 | Accounting | March 4 2022 | March 6 2022 | Pass |
|  |  |  |  |  |
|  |  |  |  |  |

* Staff can take many different training courses.
* Many staff can take the same training course.
* The same training can be offered many different times. Each time it is offered it is given a new Training ID.
* Each Staff is a certain type. These could include Sales, Promotion, etc.

**Customer Rewards View (5 marks)**

**Reward Code**: 1

**Reward Description**: Preferred Customer

**Discount Percentage**: 10%

**Customer Type ID**: 1

**Customer Type Description**: Individual

**Customer ID**: 221

**Customer Name**: Bob Hoarder

**Address**: 97-11212 Range Road 252

Sherwood Park, AB T81 1J2

**Email**: BobHoarderRox@hotmail.com

**Phone**: 780 555-1111

* Sometimes customers are enrolled into a reward program. If they are in a rewards program, they receive a discount on their consignment agreements.
* A customer is only of one type (individual, business, charity, etc.).

**Merged ERD**: (2 marks)

Create a merged ERD of your final database design for Stuff B Gone.

**Lab Submission will include the following:**

* An electronic copy of your Lab (not compressed) will be submitted to Moodle
* A 3NF solution for each view including **ALL** the attributes and entities as they appear in the initial table, 1NF, 2NF, and 3NF.
* An ERD for each 3NF solution of each view and an ERD of the merged solution (4 ERDs total) created with an ERD modeling tool approved by your instructor (Excel, Visio, Word, Lucidchart, etc.). [**Note**: Paste your view ERD’s as images into the Word document after each respective 3NF.]
* Add a **short** discussion about the lab (after the last part of your lab solution, i.e., after the merged ERD) including:
  + What you liked/disliked about the lab
  + How long it took you to complete the lab
  + How prepared you felt you were for the lab
  + Recommendations for future labs (if any)
* Any additional requirements as specified by your instructor.

**Other Considerations**

Do not make assumptions. If you have questions about the company, ask your instructor (client). This is not a group project. Working with another student on lab material may result in a grade of 0 for this lab. Up to 3 Marks may be deducted for incomplete lab submission requirements or poor client communication (check the provided documentation for the answer before asking the client).