**Purchase Order – 0NF**

**tbl\_Purchase\_Order**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Supplier\_Name | Address | Date\_Issued | Description | Quantity | Item type |
| Dipus Pharmacy,May Pharma dributer | French St, Polomolok, South Cotabato, French St, Polomolok, South Cotabato | 6-15-22, 6-15-22, 4-20-22, 4-21-22, 1-10-22 | Sodium Ascorbate, Biogesic Paracetamol, Alaxan F, Kremil-S Forte, Ascof Lagundi Syrup | 10,5,5,5,10 | Box,Bottle |

**Figure 147. Purchase Order Table – 0NF**

In figure 147, shows the un-normalized data because there are repeating groups and primary key are not identified.

**Purchase Order – 1NF**

**tbl\_Purchase\_Order**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (PK)PO\_Id | Purchase\_Order\_No | Supplier\_Name | Description | Item\_Type | Quantity | Street | Barangay | City | Province | Date\_Issued |
| 1 | PO-0001 | Dipus Pharmacy | Sodium Ascorbate | Box | 10 | French Street | Brgy. Poblacion | Polomolok | South Cotabato | 6-15-22 |
| 2 | PO-0002 | Dipus Pharmacy | Biogesic Paracetamol | Box | 5 | French Street | Brgy. Poblacion | Polomolok | South Cotabato | 6-15-22 |
| 3 | PO-0003 | May Pharma Distributor | Alaxan FR | Box | 5 | 114 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu | 4-20-22 |
| 4 | PO-0004 | May Pharma Distributor | Kremil-S Forte | Box | 5 | 114 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu | 4-21-22 |
| 5 | PO-0005 | Dipus Pharmacy | Ascof Lagundi Syrup | Bottle | 10 | French Street | Brgy. Poblacion | Polomolok | South Cotabato | 1-10-22 |

**Figure 148. Purchase Request Table – 1NF**

In figure 148, shows the first normal form which does not contain repeating groups and primary key is identified. Each attribute on the table are single value.

**Purchase Order – 2NF**

**tbl\_Purchase\_Order**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (PK)PO\_Id | Purchase\_Order\_No | (FK)Supplier\_Detail\_Id | Date\_Issued | Description | (FK)Item\_Type\_Id | Quantity |
| 1 | PO-0001 | 1 | 6-15-22 | Sodium Ascorbate | 1 | 10 |
| 2 | PO-0002 | 1 | 6-15-22 | Biogesic Paracetamol | 1 | 5 |
| 3 | PO-0003 | 2 | 4-20-22 | Alaxan FR | 1 | 5 |
| 4 | PO-0004 | 2 | 4-21-22 | Kremil-S Forte | 1 | 5 |
| 5 | PO-0005 | 1 | 1-10-22 | Ascof Lagundi Syrup | 2 | 10 |

**\**

**tbl\_Supplier\_Detail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (PK)Supplier\_Detail\_Id | Supplier\_Name | Street | Barangay | City | Province |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | olomolok | South Cotabato |

**tbl\_Item\_Type**

|  |  |  |
| --- | --- | --- |
| (PK)Item\_Type\_Id | Description | Item\_Type |
| 1 | Sodium Ascorbate | Box |
| 1 | Biogesic Paracetamol | Box |
| 1 | Alaxan FR | Box |
| 1 | Kremil-S Forte | Box |
| 2 | Ascof Lagundi Syrup | Bottle |

**Figure 149. Purchase Order Table - 2NF**

In figure 149, shows the second normal form the 1NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided into four (4) including the main table of “Purchase Order”.

**Purchase Order – 3NF**

**tbl\_Purchase\_Order**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (PK)PO\_Id | Purchase\_Order\_No | (FK)Supplier\_Detail\_Id | Date\_Issued | Description | (FK)Item\_Type\_Id | Quantity |
| 1 | PO-0001 | 1 | 6-15-22 | Sodium Ascorbate | 1 | 10 |
| 2 | PO-0002 | 1 | 6-15-22 | Biogesic Paracetamol | 1 | 5 |
| 3 | PO-0003 | 2 | 4-20-22 | Alaxan FR | 1 | 5 |
| 4 | PO-0004 | 2 | 4-21-22 | Kremil-S Forte | 1 | 5 |
| 5 | PO-0005 | 1 | 1-10-22 | Ascof Lagundi Syrup | 2 | 10 |

**tbl\_Supplier\_Detail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (PK)Supplier\_Detail\_Id | Supplier\_Name | Street | Barangay | City | Province |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | olomolok | South Cotabato |

**tbl\_Item\_Type**

|  |  |  |
| --- | --- | --- |
| (PK)Item\_Type\_Id | Description | Item\_Type |
| 1 | Sodium Ascorbate | Box |
| 1 | Biogesic Paracetamol | Box |
| 1 | Alaxan FR | Box |
| 1 | Kremil-S Forte | Box |
| 2 | Ascof Lagundi Syrup | Bottle |

**Figure 1150. Purchase Order Table - 3NF**

In figure 150, shows the third normal form the 1NF and 2NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided into four (4) including the main table of “Purchase Order”.

**Purchase Invoice - 0NF**

**tbl\_Purchase\_Invoice**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Invoice\_No | Supplier\_Name | Sold\_To | Address | Date\_Issued | Item\_Type | Item\_Description | Unit\_Price | Amount | Total\_Amount\_Due |
| 3152948248, 5079725899, 2225743314, 1448870228, 4715231437 | Dipus Pharmacy, May Pharma Distributor | Apple Rose D. Matavia, Apple Rose D. Matavia | 3 Emilio Aguinaldo Street,Koronadal City South Cotabato, Aguinaldo Street,Koronadal City South Cotabato | 6-17-22, 4-23-22, 1-15-22 | Prescription Medication, Supplements | 5 Box - Sodium Ascorbate, 2 Box (100s) – Biogesic Paracetamol, 2 Box (100s) - Alaxan FR, 2 Box (100s) - Kremil-S Forte, 10 Box - Ascof Lagundi Syrup | 202.50, 463.00, 841.00, 1,995, 165, | 1,010, 926, 1,682, 3,990, 1,650 | 1,010, 9,26, 1,682, 3,990, 1,650 |

**Figure 151. Purchase Invoice Table - 0NF**

In figure 151, shows the un-normalized data because there are repeating groups and primary key are not identified.

**Purchase Invoice - 1NF**

**tbl\_Purchase\_Invoice**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(PK)PI\_Id** | **Invoice\_No** | **Supplier\_Name** | **Sold\_To** | **Street** | **Barangay** | **City** | **Province** | **Date\_Issued** | **Item\_Type** | **Quantity** | **Unit** | **Item\_Description** | **Unit\_Price** | **Amount** | **Total\_Amount\_Due** |
| 1 | 3152948248 | Dipus Pharmacy | Apple Rose D. Matavia | 3 Emilio Aguinaldo Street | Brgy. Zone 3 | Koronadal City | South Cotabato | 6-17-22 | Prescription Medication | **5** | **Box** | Sodium Ascorbate | 202.50 | 1,010 | 1,010 |
| 2 | 5079725899 | Dipus Pharmacy | Apple Rose D. Matavia | 3 Emilio Aguinaldo Street | Brgy. Zone | Koronadal City | South Cotabato | 6-17-22 | Prescription Medication | **2** | **Box** | Biogesic Paracetamol | 463.00 | 926 | 926 |
| 3 | 2225743314 | May Pharma Distributor | Apple Rose D. Matavia | 3 Emilio Aguinaldo Street | Brgy. Zone | Koronadal City | South Cotabato | 4-23-22 | Supplements | **2** | **Box** | Alaxan FR | 841.00 | 1,682 | 1,682 |
| 4 | 1448870228 | May Pharma Distributor | Apple Rose D. Matavia | 3 Emilio Aguinaldo Street | Brgy. Zone | Koronadal City | South Cotabato | 4-23-22 | Prescription Medication | **2** | **Box** | Kremil-S Forte | 1,995 | 3,990 | 3,990 |
| 5 | 4715231437 | Dipus Pharmacy | Apple Rose D. Matavia | 3 Emilio Aguinaldo Street | Brgy. Zone | Koronadal City | South Cotabato | 1-15-22 | Prescription Medication | **10** | **Box** | Ascof Lagundi Syrup | 165 | 1,650 | 1,650 |

**Figure 152. Purchase Invoice Table – 1NF**

In figure 152, shows the first normal form which does not contain repeating groups and primary key is identified. Each attribute on the table are single value.

**Purchase Invoice - 2NF**

**tbl\_Purchase\_Invoice**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (PK)PI\_Id | Invoice\_No | (FK)Supplier\_Detail\_Id | Date\_Issued | (PK)Issued\_By\_Supplier | Quantity | (FK)Item\_Type\_Id | Description | Unit | Item\_Description | Unit\_Price | Amount | Total\_Amount\_Due |
| 1 | 152948248 | 1 | 6-17-22 | Sheila Mae M. Dipus | 5 | 1 | Sodium Ascorbate | Box | Sodium Ascorbate | 202.50 | 1,010 | 1,010 |
| 2 | 5079725899 | 1 | 6-17-22 | Sheila Mae M. Dipus | 2 | 2 | Biogesic Paracetamol | Box | Biogesic Paracetamol | 463.00 | 926 | 926 |
| 3 | 2225743314 | 2 | 4-23-22 | May Liu | 2 | 3 | Alaxan FR | Box | Alaxan FR | 841.00 | 1,682 | 1,682 |
| 4 | 1448870228 | 2 | 4-23-22 | May Liu | 2 | 4 | Kremil-S Forte | Box | Kremil-S Forte | 1,995 | 3,990 | 3,990 |
| 5 | 4715231437 | 1 | 1-15-22 | Sheila Mae M. Dipus | 10 | 5 | Ascof Lagundi Syrup | Box | Ascof Lagundi Syrup | 165 | 1,650 | 1,650 |

**tbl\_Supplier Detail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (PK)Supplier\_Detail\_Id | Supplier\_Name | Street | Barangay | City | Province |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |

**tbl\_Purchase\_Invoice\_Reference**

|  |  |  |
| --- | --- | --- |
| (PK)PI\_Reference\_Id | (FK)PI\_Id | (FK)PO\_Id |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |

**tbl\_Item\_Type**

|  |  |  |
| --- | --- | --- |
| (PK)Item\_Type\_Id | Description | Unit |
| 1 | Prescription Medication | Box |
| 1 | Prescription Medication | Box |
| 1 | Supplements | Box |
| 1 | Prescription Medication | Box |
| 2 | Prescription Medication | Box |

**Figure 153. Purchase Invoice Table - 2NF**

In figure 153, shows the second normal form the 1NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided into five (5) including the main table of “Purchase Invoice”.

**Purchase Invoice - 3NF**

**tbl\_Purchase\_Invoice**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (PK)PI\_Id | Invoice\_No | (FK)Supplier\_Detail\_Id | Date\_Issued | (PK)Issued\_By\_Supplier | Quantity | (FK)Item\_Type\_Id | Description | Unit | Item\_Description | Unit\_Price | Amount | Total\_Amount\_Due |
| 1 | 152948248 | 1 | 6-17-22 | Sheila Mae M. Dipus | 5 | 1 | Sodium Ascorbate | Box | Sodium Ascorbate | 202.50 | 1,010 | 1,010 |
| 2 | 5079725899 | 1 | 6-17-22 | Sheila Mae M. Dipus | 2 | 2 | Biogesic Paracetamol | Box | Biogesic Paracetamol | 463.00 | 926 | 926 |
| 3 | 2225743314 | 2 | 4-23-22 | May Liu | 2 | 3 | Alaxan FR | Box | Alaxan FR | 841.00 | 1,682 | 1,682 |
| 4 | 1448870228 | 2 | 4-23-22 | May Liu | 2 | 4 | Kremil-S Forte | Box | Kremil-S Forte | 1,995 | 3,990 | 3,990 |
| 5 | 4715231437 | 1 | 1-15-22 | Sheila Mae M. Dipus | 10 | 5 | Ascof Lagundi Syrup | Box | Ascof Lagundi Syrup | 165 | 1,650 | 1,650 |

**tbl\_Supplier Detail**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (PK)Supplier\_Detail\_Id | Supplier\_Name | Street | Barangay | City | Province |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 2 | May Pharma Distributor | 14 V Ranudo Street, corner F. Ramos Street | Brgy. Sacred Heart | Cebu City | Cebu |
| 1 | Dipus Pharmacy | French Street | Brgy. Poblacion | Polomolok | South Cotabato |

**tbl\_Purchase\_Invoice\_Reference**

|  |  |  |
| --- | --- | --- |
| (PK)PI\_Reference\_Id | (FK)PI\_Id | (FK)PO\_Id |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |

**tbl\_Item\_Type**

|  |  |  |
| --- | --- | --- |
| (PK)Item\_Type\_Id | Description | Unit |
| 1 | Prescription Medication | Box |
| 1 | Prescription Medication | Box |
| 1 | Supplements | Box |
| 1 | Prescription Medication | Box |
| 2 | Prescription Medication | Box |

**Figure 154. Purchase Invoice Table - 3NF**

In figure 154, shows the third normal form the 1NF and 2NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided five (4) including the main table of “Purchase Invoice”.

**Inventory Ledger**

**tbl\_Inventory\_Ledger - 0NF**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Date | Name | Category | Quantity | Unit price | OUT | IN | Total price |
| 04-12-2022, 03-15-2022, 03-22-2022, 05-16-2022, 02-12-2022 | Biogesic,Amoxicilin, Citizine ,Advil,Glucosamine | Analgesic, Antibiotics, Antihistamines Anti-inflammatory, Monosaccharide | 60, 60,60,60,100 | 5, 15,10,20 | Sold, transfer, | Purchase | 300,300,650,600, 2000 |

**Figure 155. Inventory Ledger Table - 0NF**

In figure 151, shows the un-normalized data because there are repeating groups and primary key are not identified.

**1NF**

**tbl\_Inventory\_Ledger**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Date | Name | Category | Quantity | Unit price | OUT | IN | Total price |
| 04-12-2022 | Biogesic | Analgesic | 60 | 5 | Sold |  | 300 |
| 03-15-2022 | Amoxicilin | Antibiotics | 60 | 5 |  | Purchase | 300 |
| 03-22-2022 | Citizine | Antihistamines | 60 | 15 | Transfer |  | 650 |
| 05-16-2022 | Advil | Anti-inflammatry | 60 | 10 | Sold |  | 600 |
| 02-12-2022 | Glucosamine | Monosaccharide | 100 | 20 | Transfer |  | 2000 |

**Figure 152. Inventory Ledger Table – 1NF**

In figure 152, shows the first normal form which does not contain repeating groups and primary key is identified. Each attribute on the table are single value.

**2NF**

**tbl\_Inventory\_Ledger**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (PK)Ledger\_Id | Date | Name | Category | Quantity | Unit price | OUT | IN | Total price |
| 1 | 04-12-2022 | Biogesic | Analgesic | 60 | 5 | Sold |  | 300 |
| 2 | 03-15-2022 | Amoxicilin | Antibiotics | 60 | 5 |  | Purchase | 300 |
| 3 | 03-22-2022 | Citizine | Antihistamines | 60 | 15 | Transfer |  | 650 |
| 4 | 05-16-2022 | Advil | Anti-inflammatry | 60 | 10 | Sold |  | 600 |
| 5 | 02-12-2022 | Glucosamine | Monosaccharide | 100 | 20 | Transfer |  | 2000 |

**Figure 149. Inventory Ledger Table - 2NF**

In figure 149, shows the second normal form the 1NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key.

**3NF**

**tbl\_Inventory\_Ledger**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (PK)Ledger\_Id | Date | Name | Category | Quantity | Unit price | OUT | IN | Total price |
| 1 | 04-12-2022 | Biogesic | Analgesic | 60 | 5 | Sold |  | 300 |
| 2 | 03-15-2022 | Amoxicilin | Antibiotics | 60 | 5 |  | Purchase | 300 |
| 3 | 03-22-2022 | Citizine | Antihistamines | 60 | 15 | Transfer |  | 650 |
| 4 | 05-16-2022 | Advil | Anti-inflammatry | 60 | 10 | Sold |  | 600 |
| 5 | 02-12-2022 | Glucosamine | Monosaccharide | 100 | 20 | Transfer |  | 2000 |

**Figure 154. Purchase Invoice Table - 3NF**

In figure 154, shows the third normal form the 1NF and 2NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key.

**User**

**User – 1NF**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **(PK)User\_Id** | **First\_Name** | **Last\_Name** | **Middle Initial** | **Position** | **Branch\_Name** |
| **1** | Apple Rose | Matavia | D | **Owner** | Elizhen Trading and Pharmacy Inc. -Koronadal-Aguinaldo |
| **2** | Jasmin | Velasco |  | **Staff** | Elizhen Trading and Pharmacy Inc. -Koronadal- Marañon |
| **3** | Jennifer | Lugot | D | **Staff** | Elizhen Trading and Pharmacy Inc. -Koronadal-Bario 2 |
| **4** | Rizalyn | Celestial | p | **Staff** | Elizhen Trading and Pharmacy Inc. -Surallah |
| **5** | Ladyrose | Latigay | p | **Staff** | Elizhen Trading and Pharmacy Inc. -T'boli |

**Figure 132. User Table - 1NF**

In figure 132, shows the first normal form which does not contain repeating groups and primary key is identified. Each attribute on the table is single value.

**User – 2NF**

**Tbl\_Employee**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (PK)Employee\_Id | First\_Name | Last\_Name | Middle\_Initial | (FK)Position\_Id | (FK)Branch\_Id | (FK)User\_Id |
| 1 | Apple Rose | Matavia | D | 1 | 1 | 1 |
| 2 | Jasmin | Velasco |  | 2 | 2 | 2 |
| 3 | Jennifer | Lugot | D | 2 | 3 | 3 |
| 4 | Rizalyn | Celestial | P | 2 | 4 | 4 |
| 5 | Ladyrose | Latigay | P | 2 | 5 | 5 |

**tbl\_Branch**

|  |  |
| --- | --- |
| (PK)Branch\_Id | Branch\_Name |
| 1 | Elizhen Trading and Pharmacy Inc. -Koronadal-Aguinaldo |
| 2 | Elizhen Trading and Pharmacy Inc. -Koronadal- Marañon |
| 3 | Elizhen Trading and Pharmacy Inc. -Koronadal-Bario 2 |
| 4 | Elizhen Trading and Pharmacy Inc. -Surallah |
| 5 | Elizhen Trading and Pharmacy Inc. -T'boli |

**tbl\_Position**

|  |  |
| --- | --- |
| (PK)Position\_Id | Position |
| 1 | Owner |
| 2 | Staff |

**tbl\_User**

|  |  |  |  |
| --- | --- | --- | --- |
| (PK)User\_Id | User\_Name | Password | isActive |
| 1 | Apple | f8MquvM6N9ip | True |
| 2 | Jasmin | V6m8qVj7Kz5B | True |
| 3 | Jennifer | bm27P2X4GwPC | True |
| 4 | Rizalyn | 5rN7P4RGdwc9 | True |
| 5 | Ladyrose | g3l6yIc4nG4U | True |

**Figure ##. User Table - 2NF**

In figure 133, shows the second normal form the 1NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided into four (4) including the main table of “User”.

**User – 3NF**

**tbl\_Employee**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| (PK)Employee\_Id | First\_Name | Last\_Name | Middle\_Initial | (FK)Position\_Id | (FK)Branch\_Id | (FK)User\_Id |
| 1 | Apple Rose | Matavia | D | 1 | 1 | 1 |
| 2 | Jasmin | Velasco |  | 2 | 2 | 2 |
| 3 | Jennifer | Lugot | D | 2 | 3 | 3 |
| 4 | Rizalyn | Celestial | P | 2 | 4 | 4 |
| 5 | Ladyrose | Latigay | P | 2 | 5 | 5 |

**tbl\_Branch**

|  |  |
| --- | --- |
| (PK)Branch\_Id | Branch\_Name |
| 1 | Elizhen Trading and Pharmacy Inc. -Koronadal-Aguinaldo |
| 2 | Elizhen Trading and Pharmacy Inc. -Koronadal- Marañon |
| 3 | Elizhen Trading and Pharmacy Inc. -Koronadal-Bario 2 |
| 4 | Elizhen Trading and Pharmacy Inc. -Surallah |
| 5 | Elizhen Trading and Pharmacy Inc. -T'boli |

**tbl\_Position**

|  |  |
| --- | --- |
| (PK)Position\_Id | Position |
| 1 | Owner |
| 2 | Staff |

**tbl\_User**

|  |  |  |  |
| --- | --- | --- | --- |
| (PK)User\_Id | User\_Name | Password | isActive |
| 1 | Apple | f8MquvM6N9ip | True |
| 2 | Jasmin | V6m8qVj7Kz5B | True |
| 3 | Jennifer | bm27P2X4GwPC | True |
| 4 | Rizalyn | 5rN7P4RGdwc9 | True |
| 5 | Ladyrose | g3l6yIc4nG4U | True |

**Figure 134. User Table - 3NF**

**In figure 134, shows the third normal form the 1NF and 2NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided into four (4) including the main table of “User”.**

**BRANCH INFORMATION**

**Tbl\_Branch\_Information -0NF**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Branch\_Name | Address | Contact Number |
| Apple Rose D. Matavia | Koronadal-Aguinaldo | Aguinaldo Street, Brgy. Zone III, Koronadal City, South Cotabato | 09382312632 |
| Jasmin Velasco | Koronadal- Marañon | Marañon Avenue, Brgy. Zone III, Koronadal City South Cotabato | 09464717558 |
| Jennifer D. Lugot | Koronadal-Bario 2 | Bario 2 Road, Brgy. Sto niño, Koronadal City, South Cotabato | 09972972369 |
| Rizalyn P. Celestial | Surallah | Surallah-Tboli, Brgy. Centrala, Surallah, South Cotabato | 09153245916 |
| Ladyrose P. Latigay | T'boli |  | 09971766673 |

**Figure 135. Branch Table – 0NF**

In figure 135, shows the un-normalized data because there are repeating groups and primary key are not identified.

**Tbl\_Branch\_Information-1NF**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (PK) Id | First\_Name | Last\_Name | Midde\_Initial | Branch\_Name | Street | Barangay | City | Province | Contact\_Number |
| 1 | Apple Rose | Matavia | D | Koronadal-Aguinaldo | Aguinaldo Street | Brgy. Zone III | Koronadal City | South Cotabato | 09382312632 |
| 2 | Jasmin | Velasco | N/A | Koronadal- Marañon | Marañon Avenue | Brgy. Zone III | Koronadal City | South Cotabato | 09464717558 |
| 3 | Jennifer | Lugot | D | Koronadal-Bario 2 | Bario 2 Road | Brgy. Sto niño | Koronadal City | South Cotabato | 09972972369 |
| 4 | Rizalyn | Celestial | P | Surallah | Surallah-Tboli | Brgy. Centrala | Surallah | South Cotabato | 09153245916 |
| 5 | Ladyrose | Latigay | P | T'boli |  |  | T,Boli | South Cotabato | 09971766673 |

**Figure 136. Branch Table – 1NF**

In figure 136, shows the first normal form which does not contain repeating groups and primary key is identified. Each attribute on the table are single value.

**Tbl\_Branch-2NF**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (PK)Id | Branch\_Name | (FK)Manager\_Id | (FK)Address\_ID | Contact\_Number | Email |
| 1 | Koronadal-Aguinaldo | 1 | 1 | 09382312632 | MataviaApple@  gmail.com |
| 2 | Koronadal- Marañon | 2 | 2 | 09464717558 | JasminVelasco@  gmail.com |
| 3 | Koronadal-Bario 2 | 3 | 3 | 09972972369 | JeniferLugot@  gmail.com |
| 4 | Surallah | 4 | 4 | 09153245916 | RizalynCelestal@  yahoo.com |
| 5 | T'boli1 | 5 | 5 | 09971766673 | LadyroseLatigay@  yahoo.com |

**Tbl\_Address**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(PK)Id** | **Street** | **Barangay** | **City** | **Province** |
| 1 | Aguinaldo Street | Brgy. Zone III | Koronadal City | South Cotabato |
| 2 | Marañon Avenue | Brgy. Zone III | Koronadal City | South Cotabato |
| 3 | Bario 2 Road | Brgy. Sto niño | Koronadal City | South Cotabato |
| 4 | Surallah-Tboli | Brgy. Centrala | Surallah | South Cotabato |
| 5 |  |  | T,Boli | South Cotabato |

**Tbl\_Manager**

|  |  |  |  |
| --- | --- | --- | --- |
| (PK)Manager\_Id | First\_Name | Last\_Name | Middle\_Initial |
| 1 | Apple Rose | Matavia | D |
| 2 | Jasmin | Velasco | N/A |
| 3 | Jennifer | Lugot | D |
| 4 | Rizalyn | Celestial | P |
| 5 | Ladyrose | Latigay | P |

**Figure 137. Branch Table - 2NF**

In figure 137, shows the second normal form the 1NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided into Three (3) including the main table of “Branch”.

**Tbl\_Branch-3NF**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| (PK)Branch\_Id | Branch\_Name | (FK)Manager\_Id | (FK)Address\_Id | Contact\_Number |
| 1 | Koronadal-Aguiinaldo | 1 | 1 | 09382312632 |
| 2 | Koronadal- Marañon | 2 | 2 | 09464717558 |
| 3 | Koronadal-Bario 2 | 3 | 3 | 09972972369 |
| 4 | Surallah | 4 | 4 | 09153245916 |
| 5 | T'boli | 5 | 5 | 09971766673 |

**Tbl\_Address**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| (PK)Id | Street | Barangay | City | Province |
| 1 | Aguinaldo | Zone III | Koronadal City | South Cotabato |
| 2 | Marañon Avenue | Zone III | Koronadal City | South Cotabato |
| 3 | Bario 2 Road | Sto niño | Koronadal City | South Cotabato |
| 4 | Surallah-T'boli | Centrala | Surallah | South Cotabato |
| 5 |  |  | T'boli | South Cotabato |

**Tbl\_Manager**

|  |  |  |  |
| --- | --- | --- | --- |
| **(PK)Manager\_Id** | **First\_Name** | **Last\_Name** | **Middle\_Initial** |
| 1 | Apple Rose | Matavia | D |
| 2 | Jasmin | Velasco | N/A |
| 3 | Jennifer | Lugot | D |
| 4 | Rizalyn | Celestial | P |
| 5 | Ladyrose | Latigay | P |

**Figure 138. Branch Table - 3NF**

In figure 138, shows the third normal form the 1NF and 2NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided Three (3) including the main table of “Branch”.

**0NF**

**SUPPLIER**

**Tbl\_Supplier**

|  |  |  |
| --- | --- | --- |
| **Supplier\_Name** | **Phone** | **Address** |
| Dipus Pharmacy, Jeanette Pharmcy Medical Supply & Equipment, Dipus Pharmacy, Jeanette Pharmcy Medical Supply & Equipment, May Pharma Distributor | 0932 887 81980917 758 6233, 0932 887 8198, 0917 758 6233, 0918 920 3723 | French St, Polomolok, South Cotabato, Tacurong City, Sultan Kudarat, J5G, French St, Polomolok, South Cotabato, Tacurong City, Sultan Kudarat, 114 V Ranudo St, corner F. Ramos St, Cebu City, 6000 |

1nf

Tbl\_supplier

|  |  |  |
| --- | --- | --- |
| **Supplier\_Name** | **Phone** | **Address** |
| Dipus Pharmacy | 0932 887 8198 | French St, Polomolok, South Cotabato |
| Jeanette Pharmcy Medical Supply & Equipment | 0917 758 6233 | Tacurong City, Sultan Kudarat |
| Dipus Pharmacy | 0932 887 8198 | J5G, French St, Polomolok, South Cotabato |
| Jeanette Pharmcy Medical Supply & Equipment | 0917 758 6233 | Tacurong City, Sultan Kudarat |
| May Pharma Distributor | 0918 920 3723 | 114 V Ranudo St, corner F. Ramos St, Cebu City, 6000 |

**2NF**

**Tbl\_Supplier**

|  |  |  |  |
| --- | --- | --- | --- |
| **(PK)Supplier\_Id** | **Supplier\_Name** | **Phone** | **(FK)Address\_Id** |
| **1** | Dipus Pharmacy | 0932 887 8198 | **1** |
| **1** | Dipus Pharmacy | 0932 887 8198 | **1** |
| **2** | Jeanette Pharmcy Medical Supply & Equipment | 0917 758 6233 | **2** |
| **2** | Jeanette Pharmcy Medical Supply & Equipment | 0917 758 6233 | **2** |
| **3** | May Pharma Distributor | 0918 920 3723 | **3** |

**Tbl\_Address**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(PK)Supplier\_Id** | **Street** | **Barangay** | **City** | **Province** |
| 1 | French Street | Null | Polomolok | South Cotabato |
| 1 | French Street | Null | Polomolok | South Cotabato |
| 2 | Null | Null | Tacurong City | Sultan Kudarat |
| 2 | Null | Null | Tacurong City | Sultan Kudarat |
| 3 | 114 V Ranudo St | Null | Cebu City | Null |

**Figure 141. Supplier Table - 2NF**

In figure 141, shows the second normal form the 1NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided two (2) including the main table of “Supplier”.

**3NF**

**Tbl\_Supplier**

|  |  |  |  |
| --- | --- | --- | --- |
| **(PK)Supplier\_Id** | **Supplier\_Name** | **Phone** | **(FK)Address\_Id** |
| **1** | Dipus Pharmacy | 0932 887 8198 | **1** |
| **1** | Dipus Pharmacy | 0932 887 8198 | **1** |
| **2** | Jeanette Pharmcy Medical Supply & Equipment | 0917 758 6233 | **2** |
| **2** | Jeanette Pharmcy Medical Supply & Equipment | 0917 758 6233 | **2** |
| **3** | May Pharma Distributor | 0918 920 3723 | **3** |

**Tbl\_Address**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **(PK)Supplier\_Id** | **Street** | **Barangay** | **City** | **Province** |
| 1 | French Street | Null | Polomolok | South Cotabato |
| 2 | Null | Null | Tacurong City | Sultan Kudarat |
| 3 | 114 V Ranudo St | Null | Cebu City | Null |

**Figure 142. Supplier Table - 3NF**

In figure 142, shows the third normal form the 1NF and 2NF which all partial dependencies are removed and place in separate tables. Also, the tables are fully dependent on the primary key. The table above are divided two (2) including the main table of “Supplier”.

RECIEVING REPORT

Receiving report 0nf

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| DESCRIPTION | ITEM TYPE | Category | COST/UNIT | QUANTITY | TOTAL | SUPPLIER |
| BIOESIC, Amoxicilin, Citirizine, Advil, Glucosamine | Pad,bottle,box,  Bottle,Pad | Analgesic, Antibiotics, Antihistamines, Anti-inflammatry, Monosaccharide | 5,5,15,10,20 | 60,60,60,60,100 | 300,300,650,600,  2000 | Dipus Pharmacy,May Pharmacy |

1nf

Tbl\_Receiving\_Report

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| PK(R\_Report\_ID) | DESCRIPTION | ITEM TYPE | Category | COST/UNIT | QUANTITY | TOTAL | SUPPLIER |
| 1 | BIOESIC | Pad | Analgesic | 5 | 60 | 300 | Dipus Pharmacy |
| 2 | Amoxicillin | Box | Antibiotics | 5 | 60 | 300 | Dipus Pharmacy |
| 3 | Cetirizine | Box | Antihistamines | 15 | 60 | 650 | May Pharmacy |
| 4 | Advil | Box | Anti-inflammatory | 10 | 60 | 600 | May Pharmacy |
| 5 | Glucosamine | Bottle | Monosaccharide | 20 | 100 | 2000 | Dipus Pharmacy |

2nf

Tbl\_recieving\_report

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| PK(R\_Report\_ID) | FK(Product) | ITEM TYPE | Category | COST/UNIT | QUANTITY | TOTAL | PK(Supplier\_Details\_Id) |
| 1 | 1 | Pad | Analgesic | 5 | 60 | 300 | 1 |
| 2 | 2 | Box | Antibiotics | 5 | 60 | 300 | 1 |
| 3 | 3 | Box | Antihistamines | 15 | 60 | 650 | 2 |
| 4 | 4 | Box | Anti-inflammatory | 10 | 60 | 600 | 2 |
| 5 | 5 | Bottle | Monosaccharide | 20 | 100 | 2000 | 1 |

3nf

Tbl\_recieving\_report

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| PK(R\_Report\_ID) | FK(Product) | ITEM TYPE | Category | COST/UNIT | QUANTITY | TOTAL | FK(Supplier\_Details\_Id) |
| 1 | 1 | Pad | Analgesic | 5 | 60 | 300 | 1 |
| 2 | 2 | Box | Antibiotics | 5 | 60 | 300 | 1 |
| 3 | 3 | Box | Antihistamines | 15 | 60 | 650 | 2 |
| 4 | 4 | Box | Anti-inflammatory | 10 | 60 | 600 | 2 |
| 5 | 5 | Bottle | Monosaccharide | 20 | 100 | 2000 | 1 |

Product

0nf Product

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Description | Item type | Category | Brand | Cost/unit | Quantity | Total | Expiry date |
| BIOGESIC, Amoxicillin, Cetirizine, Advil, Glucosamine | Pad,bottle,box,  Bottle,Pad | Analgesic, Antibiotics, Antihistamines, Anti-inflammatory, Monosaccharide | Branded, generic | 5,5,15,10,20 | 60,60,60,60,100 | 300,300,650,600,  2000 | 10-23-2025, 10-13-2024,09-20-2025,05-07-2026,01-20-2025 |

1nf

Tbl\_product

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Description | Item type | Category | Brand | Cost/unit | Quantity | Total | Expiry date |
| Biogesic | Pad | Analgesic | Generic | 5 | 60 | 300 | 10-23-2025 |
| Amoxicillin | bottle | Antibiotics | Branded | 5 | 60 | 300 | 10-13-2024 |
| Cetirizine | box | Antihistamines | Branded | 15 | 60 | 650 | 09-20-2025 |
| Advil | Pad | Anti-inflammatory | Generic | 10 | 60 | 600 | 05-07-2026 |
| Glucosamine | Bottle | Monosaccharide | Generic | 20 | 100 | 2000 | 01-20-2025 |

2nf

Tbl\_product

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK(Product\_id) | Description | Item type | Category | Brand | Cost/unit | Quantity | Total | Expiry date |
| 1 | Biogesic | Pad | Analgesic | Generic | 5 | 60 | 300 | 10-23-2025 |
| 2 | Amoxicillin | bottle | Antibiotics | Branded | 5 | 60 | 300 | 10-13-2024 |
| 3 | Cetirizine | box | Antihistamines | Branded | 15 | 60 | 650 | 09-20-2025 |
| 4 | Advil | Pad | Anti-inflammatory | Generic | 10 | 60 | 600 | 05-07-2026 |
| 5 | Glucosamine | Bottle | Monosaccharide | Generic | 20 | 100 | 2000 | 01-20-2025 |

3nf

Tbl\_product

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PK(Product\_id) | Description | Item type | Category | Brand | Cost/unit | Quantity | Total | Expiry date |
| 1 | Biogesic | Pad | Analgesic | Generic | 5 | 60 | 300 | 10-23-2025 |
| 2 | Amoxicillin | bottle | Antibiotics | Branded | 5 | 60 | 300 | 10-13-2024 |
| 3 | Cetirizine | box | Antihistamines | Branded | 15 | 60 | 650 | 09-20-2025 |
| 4 | Advil | Pad | Anti-inflammatory | Generic | 10 | 60 | 600 | 05-07-2026 |
| 5 | Glucosamine | Bottle | Monosaccharide | Generic | 20 | 100 | 2000 | 01-20-2025 |

Purchase return

0nf

Tbl\_purchase\_return

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Description | Item type | Category | Quantity | Supplier | Reason |
| Biogesic, amoxicillin, cetirizine, Advil, Glucosamine | Pad,bottle,box, | Analgesic, antibiotics, antihistamines, anti-inflamatory, monosoccharide | 30,30,30,30,30 | Dipus Pharmacy, May Pharmacy | Broken, expired, |

1nf

Tbl\_purchase\_return

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PK(Purchase\_return) | Description | Item type | Category | Quantity | SUPPLIER | Reason |
| 1 | Biogesic | Pad | Analgesic | 30 | Dipus Pharmacy | Broken |
| 2 | Amoxicillin | bottle | Antibiotics | 30 | Dipus Pharmacy | Broken |
| 3 | Cetirizine | box | Antihistamines | 30 | May Pharmacy | Expired |
| 4 | Advil | Pad | Anti-inflammatory | 30 | May Pharmacy | Broken |
| 5 | Glucosamine | Bottle | Monosaccharide | 30 | Dipus Pharmacy | Expired |

2nf

Tbl\_purchasereturn

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PK(Purchase\_return) | Description | Item type | Category | Quantity | SUPPLIER | Reason |
| 1 | Biogesic | Pad | Analgesic | 30 | Dipus Pharmacy | Broken |
| 2 | Amoxicillin | bottle | Antibiotics | 30 | Dipus Pharmacy | Broken |
| 3 | Cetirizine | box | Antihistamines | 30 | May Pharmacy | Expired |
| 4 | Advil | Pad | Anti-inflammatory | 30 | May Pharmacy | Broken |
| 5 | Glucosamine | Bottle | Monosaccharide | 30 | Dipus Pharmacy | Expired |

Tbl\_purchasereturn\_reference

|  |  |  |
| --- | --- | --- |
| PK(Purchase\_return) | FK(Product) | FK(Supplier\_details\_id) |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |

3nf

Tbl\_purchase\_return

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PK(Purchase\_return) | Description | Item type | Category | Quantity | FK(Supplier\_details\_id) | Reason |
| 1 | Biogesic | Pad | Analgesic | 30 | 1 | Broken |
| 2 | Amoxicillin | bottle | Antibiotics | 30 | 2 | Broken |
| 3 | Cetirizine | box | Antihistamines | 30 | 3 | Expired |
| 4 | Advil | Pad | Anti-inflammatory | 30 | 4 | Broken |
| 5 | Glucosamine | Bottle | Monosaccharide | 30 | 5 | Expired |

Tbl\_purchasereturn\_reference

|  |  |  |
| --- | --- | --- |
| PK(Purchase\_return) | FK(Product) | FK(Supplier\_details\_id) |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |

SALES

Tb1\_sales – 0NF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Quantity | Price | Date | Total |
| Cetirizine, Alaxan FR, Sodium Ascorbate, Fast relax, bioflu | 4,3,2,10,2 | 5,10,10,5,10 | 3/30/2022, 3/30/2022, 3/30/2022, 3/30/2022, 3/30/2022 | 20,30,20,50,50 |

1nf

Tbl\_sales

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PK(Sales\_id) | Item | Quantity | Price | Date | Total |
| 1 | Cetirizine | 4 | 5 | 3/30/2022 | 20 |
| 2 | Bioflu | 3 | 10 | 3/30/2022 | 30 |
| 3 | Fast Relax | 2 | 10 | 3/30/2022 | 20 |
| 4 | Sodium Ascorbate | 10 | 5 | 3/30/2022 | 50 |
| 5 | Alaxan FR | 2 | 10 | 3/30/2022 | 50 |

**2nf**

**Tbl\_product**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PK(Sales\_id) | FK(Product ) | Quantity | Price | Date | Total |
| 1 | 1 | 4 | 5 | 3/30/2022 | 20 |
| 2 | 2 | 3 | 10 | 3/30/2022 | 30 |
| 3 | 3 | 2 | 10 | 3/30/2022 | 20 |
| 4 | 4 | 10 | 5 | 3/30/2022 | 50 |
| 5 | 5 | 2 | 10 | 3/30/2022 | 50 |

3nf

Tbl\_sales

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PK(Sales\_id) | FK(Product ) | Quantity | Price | Date | Total |
| 1 | 1 | 4 | 5 | 3/30/2022 | 20 |
| 2 | 2 | 3 | 10 | 3/30/2022 | 30 |
| 3 | 3 | 2 | 10 | 3/30/2022 | 20 |
| 4 | 4 | 10 | 5 | 3/30/2022 | 50 |
| 5 | 5 | 2 | 10 | 3/30/2022 | 50 |