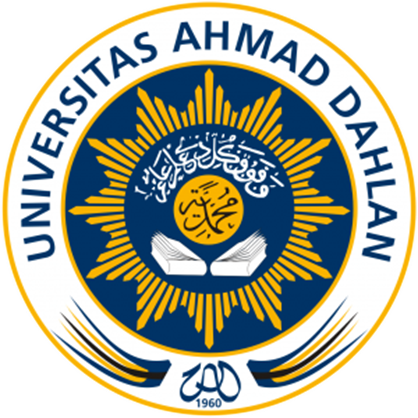
**LAPORAN**

**“Normlaisasi pada Kasus Toko Sembako”**

Diajukan untuk memenuhi salah satu praktikum Mata Kuliah Basis Data yang di ampu oleh:

Dewi Soyusiawaty, S.T., M.T.

Ditulis oleh:

|  |  |  |
| --- | --- | --- |
| **Rendie Abd Saputra** | **2200018094** | **A** |
| **Mohammad Farid Hendianto** | **2200018401** | **A** |
| **Reyhanssan Islamey** | **2200018411** | **A** |

**PROGRAM STUDI INFORMATIKA**

**UNIVERSITAS AHMAD DAHLAN**

**FAKULTAS TEKNOLOGI INDUSTRI**

**TAHUN 2023**

Kasus Sembako:

|  |  |  |  |
| --- | --- | --- | --- |
| TOKO ADIL LENGKAP  Menyediakan sembako dengan harga bersaing  Ruko Perumahan Rizki No. B6  Telp. 082334413455 | | NOTA | Tanggal: 28 April 2023  Kepada: Ibu Anni  Toko: Anni Sembako |
|  |  |  |  |
| Banyaknya | Nama Barang | Harga Satuan | Jumlah |
| 3 kg | Gula pasir | Rp 15.000 | Rp 45.000 |
| 3 liter | Minyak goreng liter | Rp 20.000 | Rp 60.000 |
| 1 dus | Indomie kari | Rp 120.000 | Rp 120.000 |
| 1 kg | Garam | Rp 10.000 | Rp 10.000 |
| 5 kg | Telor ayam | Rp 25.000 | Rp 75.000 |
| 3 botol | Kecap | Rp 15.000 | Rp 45.000 |
| 2 dus | Aqua 600 ml | Rp 45.000 | Rp 90.000 |
|  |  |  |  |
|  |  | TOTAL | 445.000 |
| Hormat Kami,    Adil | | | |

mari kita lakukan normalisasi untuk kasus Sembako:

Tabel UNF (Unnormalized Form):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **NotaID** | **Tanggal** | **Pembeli** | **Toko** | **Barang** | **Harga Satuan** | **Jumlah** | **Total** |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Gula pasir | 15000 | 3 | 45000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Minyak goreng | 20000 | 3 | 60000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Indomie kari | 120000 | 1 | 120000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Garam | 10000 | 1 | 10000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Telor ayam | 25000 | 5 | 75000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Kecap | 15000 | 3 | 45000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Aqua 600 ml | 45000 | 2 | 90000 |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | Total |  |  | 445000 |

Tabel 1NF (First Normal Form):

Tabel transaksi:

| **NotaID** | **Tanggal** | **Pembeli** | **Toko** | **Total** |
| --- | --- | --- | --- | --- |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | 445000 |

Tabel detail transaksi:

| **NotaID** | **Barang** | **Harga Satuan** | **Jumlah** | **Subtotal** |
| --- | --- | --- | --- | --- |
| 1 | Gula pasir | 15000 | 3 | 45000 |
| 1 | Minyak goreng | 20000 | 3 | 60000 |
| 1 | Indomie kari | 120000 | 1 | 120000 |
| 1 | Garam | 10000 | 1 | 10000 |
| 1 | Telor ayam | 25000 | 5 | 75000 |
| 1 | Kecap | 15000 | 3 | 45000 |
| 1 | Aqua 600 ml | 45000 | 2 | 90000 |

Tabel 2NF (Second Normal Form):

Tabel transaksi:

| **NotaID** | **Tanggal** | **Pembeli** | **Toko** | **Total** |
| --- | --- | --- | --- | --- |
| 1 | 28/04/23 | Ibu Anni | Anni Sembako | 445000 |

Tabel detail transaksi:

| **NotaID** | **BarangID** | **Jumlah** | **Subtotal** |
| --- | --- | --- | --- |
| 1 | 1 | 3 | 45000 |
| 1 | 2 | 3 | 60000 |
| 1 | 3 | 1 | 120000 |
| 1 | 4 | 1 | 10000 |
| 1 | 5 | 5 | 75000 |
| 1 | 6 | 3 | 45000 |
| 1 | 7 | 2 | 90000 |

Tabel barang:

| **BarangID** | **Barang** | **Harga Satuan** |
| --- | --- | --- |
| 1 | Gula pasir | 15000 |
| 2 | Minyak goreng | 20000 |
| 3 | Indomie kari | 120000 |
| 4 | Garam | 10000 |
| 5 | Telor ayam | 25000 |
| 6 | Kecap | 15000 |
| 7 | Aqua 600 ml | 45000 |

Tabel 3NF (Third Normal Form):

Tabel transaksi:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NotaID** | **Tanggal** | **PembeliID** | **Toko** | **Total** |
| 1 | 28/04/23 | 1 | Anni Sembako | 445000 |

Tabel pembeli:

| **PembeliID** | **Nama Pembeli** |
| --- | --- |
| 1 | Ibu Anni |

Tabel detail transaksi:

| **NotaID** | **BarangID** | **Jumlah** | **Subtotal** |
| --- | --- | --- | --- |
| 1 | 1 | 3 | 45000 |
| 1 | 2 | 3 | 60000 |
| 1 | 3 | 1 | 120000 |
| 1 | 4 | 1 | 10000 |
| 1 | 5 | 5 | 75000 |
| 1 | 6 | 3 | 45000 |
| 1 | 7 | 2 | 90000 |

Tabel barang:

|  |  |  |
| --- | --- | --- |
| **BarangID** | **Barang** | **Harga Satuan** |
| 1 | Gula pasir | 15000 |
| 2 | Minyak goreng | 20000 |
| 3 | Indomie kari | 120000 |
| 4 | Garam | 10000 |
| 5 | Telor ayam | 25000 |
| 6 | Kecap | 15000 |
| 7 | Aqua 600 ml | 45000 |

Dengan normalisasi ini, data dapat disimpan dengan lebih efisien dan meminimalisir redundansi serta anomali dalam database.