LAPORAN UTS DATABASE

1. **solusi tabel bentuk normal pertama (1NF)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **KODE\_PENGADAAN** | **TANGGAL\_PENGADAAN** | **KODE\_SUPPLIER** | **NAMA\_SUPPLIER** | **ALAMAT\_SUPPLIER** | **KODE\_BARANG** | **NAMA\_BARANG** | **HARGA** | **JUMLAH** | **TOTAL\_HARGA** |
| PGD001 | 2024-10-15 | SUP001 | PT. ABC | Jl. Merdeka No. 1 | BRG001 | Indomie Goreng | 100000 | 10 | 1000000 |
| PGD002 | 2024-10-15 | SUP002 | PT. XYZ | Jl. Sudirman No. 20 | BRG002 | Indomie Goreng Jumbo | 200000 | 5 | 1000000 |
| PGD003 | 2024-10-16 | SUP001 | PT. ABC | Jl. Merdeka No. 1 | BRG001 | Indomie Goreng | 100000 | 5 | 500000 |
| PGD003 | 2024-10-16 | SUP001 | PT. ABC | Jl. Merdeka No. 1 | BRG003 | Mie Sedaap Goreng | 100000 | 7 | 700000 |

1. **solusi tabel bentuk normal kedua (2NF)**
2. **Tabel Supplier**

|  |  |  |
| --- | --- | --- |
| **KODE\_SUPPLIER** | **NAMA\_SUPPLIER** | **ALAMAT\_SUPPLIER** |
| SUP001 | PT. ABC | Jl. Merdeka No. 1 |
| SUP002 | PT. XYZ | Jl. Sudirman No. 20 |

1. **Tabel Pengadaan**

|  |  |  |
| --- | --- | --- |
| **KODE\_PENGADAAN** | **TANGGAL\_PENGADAAN** | **KODE\_SUPPLIER** |
| PGD001 | 2024-10-15 | SUP001 |
| PGD002 | 2024-10-15 | SUP002 |
| PGD003 | 2024-10-16 | SUP001 |

1. **Tabel Detail Pengadaan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **KODE\_PENGADAAN** | **KODE\_BARANG** | **NAMA\_BARANG** | **HARGA** | **JUMLAH** | **TOTAL\_HARGA** |
| PGD001 | BRG001 | Indomie Goreng | 100000 | 10 | 1000000 |
| PGD002 | BRG002 | Indomie Goreng Jumbo | 200000 | 5 | 1000000 |
| PGD003 | BRG001 | Indomie Goreng | 100000 | 5 | 500000 |
| PGD003 | BRG003 | Mie Sedaap Goreng | 100000 | 7 | 700000 |

1. **solusi tabel bentuk normal ketiga (3NF) + Bentuk normal Boyce-Codd**
   1. **Tabel Supplier**

|  |  |  |
| --- | --- | --- |
| **KODE\_SUPPLIER** | **NAMA\_SUPPLIER** | **ALAMAT\_SUPPLIER** |
| SUP001 | PT. ABC | Jl. Merdeka No. 1 |
| SUP002 | PT. XYZ | Jl. Sudirman No. 20 |

* 1. **Tabel Pengadaan**

|  |  |  |
| --- | --- | --- |
| **KODE\_PENGADAAN** | **TANGGAL\_PENGADAAN** | **KODE\_SUPPLIER** |
| PGD001 | 2024-10-15 | SUP001 |
| PGD002 | 2024-10-15 | SUP002 |
| PGD003 | 2024-10-16 | SUP001 |

* 1. **Tabel Barang**

|  |  |  |
| --- | --- | --- |
| **KODE\_BARANG** | **NAMA\_BARANG** | **HARGA** |
| BRG001 | Indomie Goreng | 100000 |
| BRG002 | Indomie Goreng Jumbo | 200000 |
| BRG003 | Mie Sedaap Goreng | 100000 |

* 1. **Tabel Detail Pengadaan**

|  |  |  |  |
| --- | --- | --- | --- |
| **KODE\_PENGADAAN** | **KODE\_BARANG** | **JUMLAH** | **TOTAL\_HARGA** |
| PGD001 | BRG001 | 10 | 1000000 |
| PGD002 | BRG002 | 5 | 1000000 |
| PGD003 | BRG001 | 5 | 500000 |
| PGD003 | BRG003 | 7 | 700000 |

1. **Primaty Key dan Foreign Key**
2. **Tabel: Supplier**

|  |  |  |
| --- | --- | --- |
| **Kolom** | **Tipe Data** | **Keterangan** |
| kode\_supplier | VARCHAR(10) | Primary Key |
| nama\_supplier | VARCHAR(50) | Nama supplier |
| alamat\_supplier | VARCHAR(100) | Alamat lengkap supplier |

1. **Tabel: Barang**

|  |  |  |
| --- | --- | --- |
| **Kolom** | **Tipe Data** | **Keterangan** |
| kode\_barang | VARCHAR(10) | Primary Key |
| nama\_barang | VARCHAR(50) | Nama barang |
| harga | INT | Harga satuan barang |

1. **Tabel: Pengadaan**

|  |  |  |
| --- | --- | --- |
| **Kolom** | **Tipe Data** | **Keterangan** |
| kode\_pengadaan | VARCHAR(10) | Primary Key |
| tanggal\_pengadaan | DATE | Tanggal pengadaan barang |
| kode\_supplier | VARCHAR(10) | Foreign Key ke Supplier |

1. **Tabel: Pengadaan\_Detail**

|  |  |  |
| --- | --- | --- |
| **Kolom** | **Tipe Data** | **Keterangan** |
| kode\_pengadaan | VARCHAR(10) | Foreign Key ke Pengadaan |
| kode\_barang | VARCHAR(10) | Foreign Key ke Barang |
| jumlah | INT | Jumlah barang yang dibeli |
| total\_harga | INT | Total harga untuk jumlah barang |



1. **eksekusi SQL Query (DML)**

**Tabel: Supplier**

|  |  |  |
| --- | --- | --- |
| **kode\_supplier** | **nama\_supplier** | **alamat\_supplier** |
| SUP001 | PT. ABC | Jl. Merdeka No. 1 |
| SUP002 | PT. XYZ | Jl. Sudirman No. 20 |

1. **Tabel: Barang**

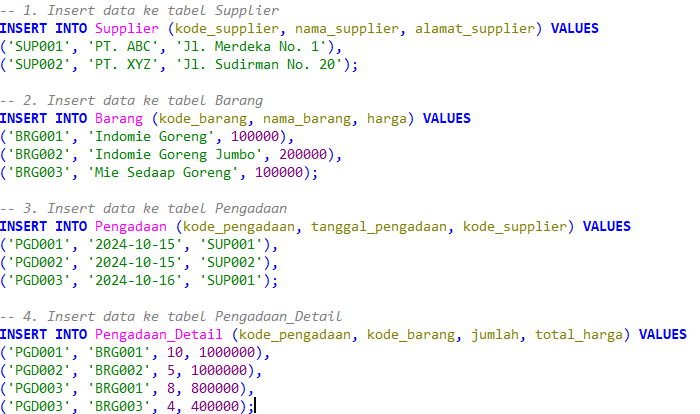
|  |  |  |
| --- | --- | --- |
| **kode\_barang** | **nama\_barang** | **harga** |
| BRG001 | Indomie Goreng | 100000 |
| BRG002 | Indomie Goreng Jumbo | 200000 |
| BRG003 | Mie Sedaap Goreng | 100000 |

1. **Tabel: Pengadaan**

|  |  |  |
| --- | --- | --- |
| **kode\_pengadaan** | **tanggal\_pengadaan** | **kode\_supplier** |
| PGD001 | 2024-10-15 | SUP001 |
| PGD002 | 2024-10-15 | SUP002 |
| PGD003 | 2024-10-16 | SUP001 |

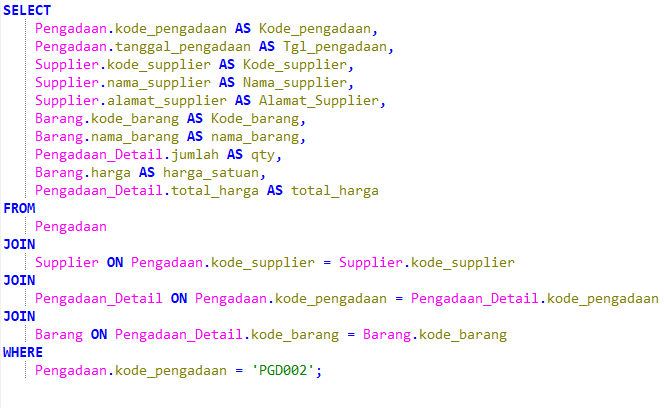
1. **Tabel: Pengadaan\_Detail**

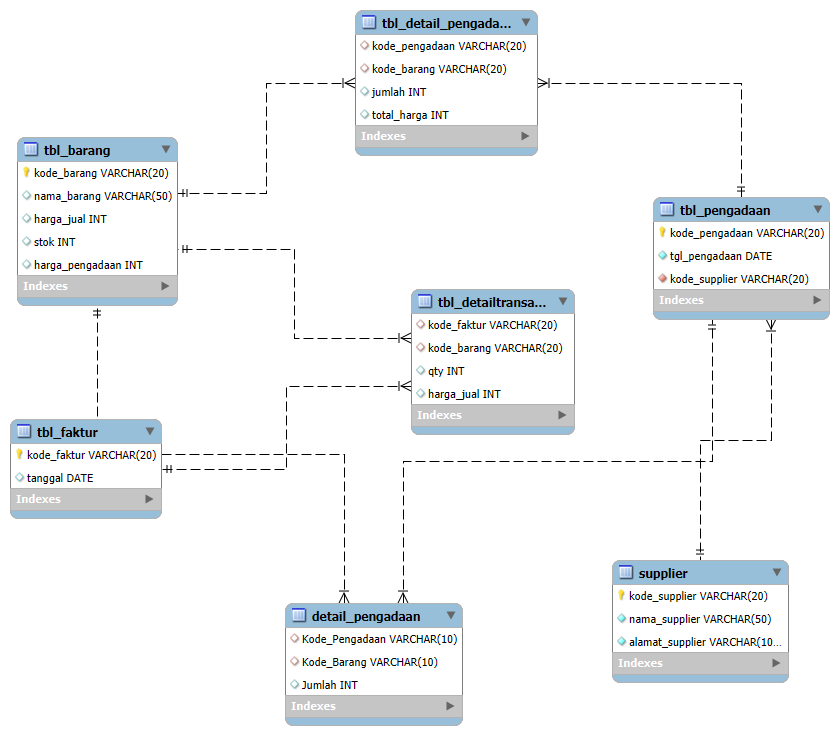
|  |  |  |  |
| --- | --- | --- | --- |
| **kode\_pengadaan** | **kode\_barang** | **jumlah** | **total\_harga** |
| PGD001 | BRG001 | 10 | 1000000 |
| PGD002 | BRG002 | 5 | 1000000 |
| PGD003 | BRG001 | 8 | 800000 |
| PGD003 | BRG003 | 4 | 400000 |



6. Joins Query

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Kode\_pengad aan** | **Tgl\_pengad aan** | **Kode\_suppl ier** | **Nama\_suppl ier** | **Alamat\_Supp lier** | **Kode\_bara ng** | **nama\_bara ng** | **qt y** | **harga\_satu an** | **total\_har ga** |
| PGD002 | 2024-10-15 | SUP002 | PT. XYZ | Jl. Sudirman No. 20 | BRG002 | Indomie Goreng  Jumbo | 5 | 200000 | 1000000 |



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