1. Tabel Menu
2. Normalisasi Bentuk 1NF

|  |  |  |  |
| --- | --- | --- | --- |
| Id\_menu | Nama | Harga | Status |
| A848 | Nasi Putih | 8000 | Tersedia |
| A410 | Dendeng Gepuk | 10000 | Tersedia |
| A415 | Ayam Bakar | 7000 | Habis |
| A422 | Ayam Goreng | 7000 | Tersedia |
| A435 | Sayur Asem | 8000 | Tersedia |

1. Normalisasi Bentuk 2NF

Id\_menu -> Nama

Id\_menu -> Harga

Id\_menu -> Status

1. Normalisasi Bentuk 3NF
2. Tabel Costumer
3. Normalisasi Bentuk 1NF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id\_Costumer | Nama | Alamat | Nomer\_telp | Email | Agama | Jenis\_kelamin | Username |
| 11110 | Hanif | Semarang | 081234362643 | hanifrifki46@gamil.com | Islam | L | Hanif0 |
| 11111 | Arif | Cirebon | 087824431645 | [Arifrh01@gmail.com](mailto:Arifrh01@gmail.com) | Islam | L | Arifrh01 |
| 11112 | Edy | Surabaya | 082231546557 | [edysantoso@gmail.com](mailto:edysantoso@gmail.com) | Islam | L | Edy12345 |
| 11113 | Gandhi | Batam | 08253146548 | [gandhia@gmail.com](mailto:gandhia@gmail.com) | Islam | L | Gandhim123 |
| 11114 | Cum | Cirebon | 08985878752 | [anniscum@gmail.com](mailto:anniscum@gmail.com) | Islam | P | Chumaedah012 |

1. Normalisasi Bentuk 2NF

Id\_costumer -> Nama

Id\_costumer -> Alamat

Id\_costumer -> Nomor\_telp

Id\_costumer -> Email

Id\_costumer -> Agama

Id\_costumer -> Jenis\_kelamin

Id\_costumer -> Username

1. Normalisasi Bentuk 3NF
2. Tabel Pegawai
3. Normalisasi Bentuk 1NF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id\_pegawai | Nama | Email | Alamat | Jenis\_kelamin | Jabatan | Agama | Username |
| P101 | Reza | [reza@gmail.com](mailto:reza@gmail.com) | Bekasi | L | Kasir | Islam | Reza01 |
| P102 | Diaz | [diaz@gmail.com](mailto:diaz@gmail.com) | Sukabumi | L | Koki | Islam | Diaz02 |
| P103 | Irvan | [irvan@gmail.com](mailto:irvan@gmail.com) | Bogor | L | Pelayan | Islam | Irvan03 |
| P104 | Ncis | [ncis@gmail.com](mailto:ncis@gmail.com) | Kaliurang | P | Koki | Islam | Ncis04 |
| P105 | Cenjay | [cenjay@gmail.com](mailto:cenjay@gmail.com) | Bekasi | L | Pelayan | Islam | Cenjay05 |

1. Normalisasi Bentuk 2NF

Id\_pegawai -> Nama

Id\_pegawai -> Email

Id\_pegawai -> Alamat

Id\_pegawai -> Jenis\_kelamin

Id\_pegawai -> Jabatan

Id\_pegawai -> Agama

Id\_pegawai -> Username

1. Normalisasi Bentuk 3NF
2. Tabel userpass
3. Normalisasi Bentuk 1NF

|  |  |  |
| --- | --- | --- |
| Username | Password | Status |
| Reza01 | Reza01 | Pegawai |
| Diaz02 | Diaz98 | Pegawai |
| Irvan03 | Irvan10 | Pegawai |
| Ncis04 | Ncis98 | Pegawai |
| Cenjay05 | Cenjay999 | Pegawai |
| Hanif0 | Hanif98 | Costumer |
| Arifrh01 | 1234ar | Costumer |
| Edy12345 | Edys001 | Costumer |
| Gandhim123 | Gandhimm | Costumer |
| Chumaedah012 | Chumaedah99 | Costumer |

1. Tabel Gaji
2. Normalisasi Bentuk 1NF

|  |  |  |
| --- | --- | --- |
| Bulan | Username | Jumlah\_gaji |
| Agustus | Reza01 | 2500000 |
| Agustus | Diaz02 | 2500000 |
| Agustus | Irvan03 | 2000000 |
| Agustus | Ncis04 | 2500000 |
| Agustus | Cenjay05 | 2000000 |

1. Tabel Message
2. Normalisasi Bentuk 1NF

|  |  |  |
| --- | --- | --- |
| Id\_message | Username | Message |
| M101 | Hanif0 | Restaurant nyaman, makanan berkualitas |
| M102 | Arifrh01 | Restaurant terlihat rapih |
| M103 | Edy12345 | Restaurant nyaman untuk mengerjakan tugas |
| M104 | Gandhim123 | Enak buat nongs |
| M105 | Chumaedah012 | Restaurant yang dapat memberikan sebuah inspirasi |

1. Tabel Transaksi
2. Normalisasi Bentuk 1NF

|  |  |  |  |
| --- | --- | --- | --- |
| Id\_transaksi | Id\_costumer | Tgl\_transaksi | Status |
| TR01 | 11110 | 12/02/2018 | Lunas |
| TR02 | 11110 | 13/02/2018 | Lunas |
| TR03 | 11112 | 14/02/2018 | Lunas |
| TR04 | 11111 | 14/02/2018 | Lunas |
| TR05 | 11111 | 15/02/2018 | Lunas |

1. Tabel Kehadiran
2. Normalisasi Bentuk 1NF

|  |  |  |
| --- | --- | --- |
| Tgl\_Bln\_Thn | Id\_pegawai | Status |
| 01/07/2018 | P101 | Hadir |
| 01/07/2018 | P102 | Hadir |
| 01/07/2018 | P103 | Hadir |
| 01/07/2018 | P104 | Hadir |
| 01/07/2018 | P105 | Hadir |

1. Tabel Stok Barang
2. Normalisasi Bentuk 1NF

|  |  |  |
| --- | --- | --- |
| Id\_barang | Nama\_barang | Status |
| BR01 | Ayam | Ada |
| BR02 | Beras | Ada |
| BR03 | Daging Sapi | Ada |
| BR04 | Timun | Ada |
| BR05 | Merica | Ada |

**ATRIBUT TABLE**

Table 2. 22. Kamus Data Menu

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_menu | PK | Varchar(5) |
| Nama | - | Varchar(20) |
| Harga | - | Long |
| Status | - | Varchar(10) |

Table 2. 25. Kamus Data Userpass

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Username | PK | Varchar(20) |
| Password | - | Varchar(20) |
| Status | - | Varchar(1) |

Table 2. 23. Kamus Data Customer

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_costumer | PK | Varchar(5) |
| Nama | - | Varchar(20) |
| Alamat | - | Varchar(100) |
| Nomer\_telp | - | Varchar(13) |
| Jenis\_kelamin | - | Char |
| Email | - | Varchar(50) |
| Agama | - | Varchar(10) |
| Username | FK | Varchar(20) |

Table 2. 24. Kamus Data Pegawa

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_pegawai | PK | Varchar(5) |
| Nama | - | Varchar(20) |
| Alamat | - | Varchar(100) |
| Jenis\_kelamin | - | Char |
| Nomer\_telp | - | Varchar(13) |
| Email | - | Varchar(50) |
| Jabatan | - | Varchar(10) |
| Agama | - | Varchar(10) |
| Username | FK | Varchar(20) |

Table 2. 26. Kamus Data Transaksi

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_transaksi | PK | Varchar(5) |
| Id\_customer | FK | Varchar(5) |
| Tgl\_transaksi | - | Varchar(20) |
| Status | - | Varchar(20) |

Table 2. 27. Kamus Data DetilTransaksi

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_transaksi | FK | Varchar(5) |
| Id\_menu | FK | Varchar(20) |
| Jumlah\_barang | - | Varchar(20) |
| Total\_Harga | - | Long |
| Status\_pesan | - | Varchar(20) |

Table 2. 28. Kamus Data Kehadiran

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Tgl\_Bln\_Thn | - | Varchar(10) |
| Id\_pegawai | FK | Varchar(5) |
| Status | - | Varchar(20) |

Table 2. 29. Kamus Data Kehadiran

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_barang | PK | Varchar(20) |
| Nama\_barang | - | Varchar(20) |
| Status | - | Varchar(1) |

Table 2. 30. Kamus Data Message

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Id\_message | PK | Varchar(5) |
| Username | FK | Varchar(5) |
| Message | - | Varchar(100) |

Table 2. 31. Kamus Data Gaji

|  |  |  |
| --- | --- | --- |
| Isi Atribut | Pk/Fk | Tipe Data |
| Bulan | PK | Varchar(20) |
| Usrname | FK | Varchar(5) |
| Jumlah\_gaji | - | Long |

**DDL**

create table menu(

id\_menu varchar(5) not null,

nama varchar(20),

harga long,

status varchar(10),

constraint menu\_pk primary key (id\_menu)

);

create table userpass(

username varchar(20) not null,

password varchar(20) not null,

status varchar(1),

constraint userpass\_pk primary key (username)

);

create table customer(

id\_customer varchar(5) not null,

nama varchar(20),

alamat varchar(100),

nomer\_telp varchar(13),

jenis\_kelamin char,

email varchar(50),

agama varchar(10),

username varchar(20) not null,

constraint customer\_pk primary key (id\_customer),

constraint customer\_fk1 foreign key (username) references userpass (username) on delete cascade

);

create table pegawai(

id\_pegawai varchar(5) not null,

nama varchar(20),

alamat varchar(100),

jenis\_kelamin char,

nomer\_telp varchar(13),

email varchar(50),

jabatan varchar(10),

agama varchar(10),

username varchar(20) not null,

constraint pegawai\_pk primary key (id\_pegawai),

constraint pegawai\_fk1 foreign key (username) references userpass(username) on delete cascade

);

create table transaksi(

id\_transaksi varchar(5),

id\_customer varchar(5),

tgl\_transaksi date,

status varchar(20),

constraint transaksi\_pk primary key (id\_transaksi),

constraint transaksi\_fk1 foreign key (id\_customer) references customer (id\_customer) on delete cascade

);

Create table stok\_barang(

Id\_barang varchar(5) not null,

Nama\_barang varchar(20),

Status varchar(1),

Constraint stok\_barang\_pk primary key (id\_barang)

);

Create table message(

Id\_message varchar(5) not null,

Username varchar(5) not null,

Message varchar(100),

Constraint message\_pk primary key (id\_message),

Constraint message\_fk1 foreign key (username) references userpass (username) on delete cascade

);

Create table DetilTransaksi(

Id\_transaksi varchar(5) not null,

Id\_menu varchar(20) not null,

Jumlah\_barang varchar(20),

Total\_harga long,

Status\_pesan varchar(20),

Constraint DetilTransaksi\_fk1 foreign key (id\_transaksi) references transaksi (id\_transaksi) on delete cascade,

Constraint DetilTransaksi\_fk2 foreign key (id\_menu) references menu (id\_menu) on delete cascade

);

create table kehadiran(

Tgl\_Bln\_Thn date,

id\_pegawai varchar(5) not null,

Status varchar(20),

Constraint kehadiran\_fk1 foreign key (id\_pegawai) references pegawai (id\_pegawai) on delete cascade

);

Create table gaji(

Bulan varchar(20),

Username varchar(5) not null,

Jumlah\_gaji long,

Constraint gaji\_pk primary key (bulan),

Constraint gaji\_fk1 foreign key (username) references userpass (username) on delete cascade

);

**DML**

Insert into menu values (“A848”,”Nasi Putih”, 8000 ,”Tersedia”);

Insert into menu values (“A410”, “Dendeng Gepuk”, 10000 , “Tersedia”);

Insert into menu values (“A415”,”Ayam Bakar”, 7000 ,”Habis”);

Insert into menu values (“A422”,”Ayam Goreng”, 7000 , “Tersedia”);

Insert into menu values (“A435”,”Sayur Asem”, 8000 ,”Tersedia”);

Insert into customer values (“11110”,”Hanif”,”Semarang”,”081234362643”,”L”,”hanifrifki46@yahoo.com”,”Islam”,”Hanif0”);

Insert into customer values (“11111”,”Arif”,”Cirebon”,”087824431645”,”L”, ”Arifrh01@gmail.com”,”Islam” ,”Arifh01”);

Insert into customer values (“11112”,”Edy”,”Surabaya”,”082231546557”,”L”, ”edysantoso@gmail.com”,”Islam”,”Edy12345”);

Insert into customer values (“11113”,”Gandhi”,”Batam”,”08253146548”,”L”,”[gandhia@gmail.com](mailto:gandhia@gmail.com)”,”Islam”,”Gandhim123”);

Insert into customer values (“11114”,”Cum”,”Cirebon”,”08985878752”,”P”,”[anniscum@gmail.com](mailto:anniscum@gmail.com)”,”Islam”,”Chumaedah012”);

Insert into pegawai values (“P101”,”Reza”,”Bekasi”,”L”,”081675872102”,”reza@gmail.com”,”Kasir”,”Islam”,”Reza01”);

Insert into pegawai values (“P102”,”Diaz”,”Sukabumi”,”L”,”081234567811”,”diaz@gmail.com”,”Koki,”Islam”,”Diaz02”);

Insert into pegawai values (“P103”,”Irvan”,”Bogor”,”L”,”087824431645”,”Irvan@gmail.com”,”Pelayan”,”Islam”,”Irvan03”);

Insert into pegawai values (“P104”,”Ncis”, ”Kaliurang”, ”P”,”089777888102”,”ncis@gmail.com” ,”Koki”,”Islam”,”Ncis04”);

Insert into pegawai values (“P105”,”Cenjay”,”Bekasi”,”L”,”088111222333401”,”cenjay@gmail.com”,”Pelayan”,”Islam”,”Cenjay05”);

Insert into userpass values (“Reza01”,”Reza01”,”Pegawai”);

Insert into userpass values (“Diaz02”,”Diaz98”,”Pegawai”);

Insert into userpass values (“Irvan03”,”Irvan10”,”Pegawai”);

Insert into userpass values (“Ncis04”,”Ncis98”,”Pegawai”);

Insert into userpass values (“Cenjay05”,”Cenjay999”,”Pegawai”);

Insert into userpass values (“Hanif0”,”hanif98”,”Costumer”);

Insert into userpass values (“Arifh01”,”1234ar”,”Costumer”);

Insert into userpass values (“Edy12345”,”Edy001”,”Costumer”);

Insert into userpass values (“Gandhim123”,”Gabdhimm”,”Costumer”);

Insert into userpass values (“Chumaedah012”,”Chumaedah99”,”Costumer”);

Insert into Gaji values (“Agustus”,”Reza01”,”2500000”);

Insert into Gaji values (“Agustus”,”Diaz02”,”2500000”);

Insert into Gaji values (“Agustus”,”Irvan03”,”2000000”);

Insert into Gaji values (“Agustus”,”Ncis04”,”2500000”);

Insert into Gaji values (“Agustus”,”Cenjay05”,”2000000”);

Insert into message values (“M101”,”Hanif0”,”Restaurant nyaman, makanan berkualitas”);

Insert into message values (“M102”,”Arifrh01”,”Restaurant terlihat rapih”);

Insert into message values (“M103”,”Edy12345”,”Restaurant nyaman untuk mengerjakan tugas”);

Insert into message values (“M104”,”Gandhim123”,”Enak buat nongs”);

Insert into message values (“M105”,”Chumaedah012”,”Restaurant yang dapat memerikan sebuah inspirasi”);

Insert into transaksi values (“TR01”,”11110”,12/02/2018,”Lunas”);

Insert into transaksi values (“TR02”,”11110”,13/02/2018,”Lunas”);

Insert into transaksi values (“TR03”,”11112”,14/02/2018,”Lunas”);

Insert into transaksi values (“TR04”,”11111”,14/02/2018,”Lunas”);

Insert into transaksi values (“TR05”,”11111”,15/02/2018,”Lunas”);

Insert into kehadiran values (01/07/2018,”P101”,”Hadir”);

Insert into kehadiran values (01/07/2018,”P102”,”Hadir”);

Insert into kehadiran values (01/07/2018,”P103”,”Hadir”);

Insert into kehadiran values (01/07/2018,”P104”,”Hadir”);

Insert into kehadiran values (01/07/2018,”P105”,”Hadir”);

Insert into stok\_barang values (“BR01”, “Ayam”, “Ada”);

Insert into stok\_barang values (“BR02”,”Beras”,”Ada”);

Insert into stok\_barang values (“BR03”,”Daging Sapi”,”Ada”);

Insert into stok\_barang values (“BR04”,”Timun”, “Ada”);

Insert into stok\_barang values (“BR05”, “Merica”, “Ada”);

Select id,nama,harga,status from menu; # menampilkan menu yang ada

Select totalharga, id\_transaksi from detiltransaksi where id\_transaksi in (select id\_transaksi from transaksi where id\_customer = ‘CO123’); # menampilkan semua id\_transaksi beserta total harga dari customer ‘CO123’