

**LAPORAN PRAKTIKUM**

**REKAYASA PERANGKAT LUNAK**

**Dosen pengampu : Allin Junikhah, M.T.**



**Disusun oleh :**

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**Praktikum Rekayasa Perangkat Lunak B**

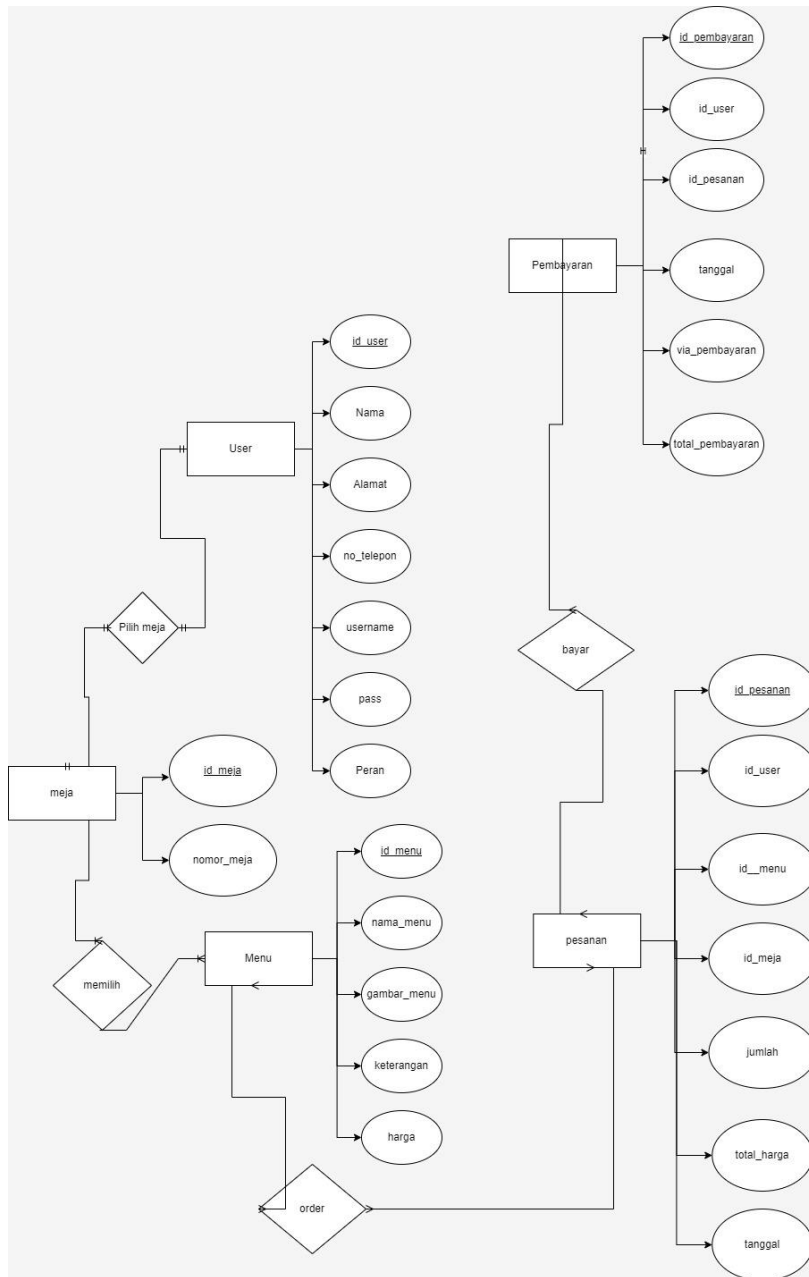
**FAKULTAS SAINS DAN TEKNOLOGI**

**PROGRAM STUDI TEKNIK INFORMATIKA**

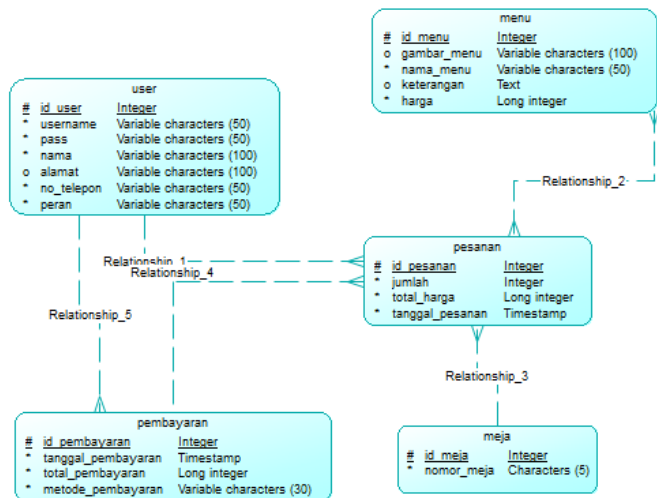
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**2024**

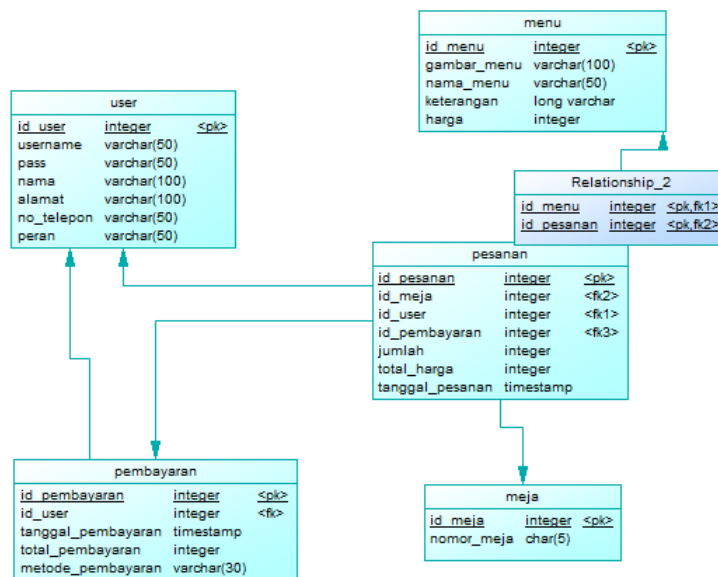
## 1. ERD



## 2. CDM



## 3. PDM



## 4. SQL

```

/*=====*/
/* DBMS name:   Sybase SQL Anywhere 12          */
/* Created on:   26/03/2024 22:14:11             */
/*=====*/

```

if exists(select 1 from sys.sysforeignkey where role='FK\_TBL\_PEMB\_RELATIONS\_TBL\_USER') then

```

alter table TBL_PEMBAYARAN
  delete foreign key FK_TBL_PEMB_RELATIONS_TBL_USER
end if;

if exists(select 1 from sys.sysforeignkey where role='FK_TBL_PESA_RELATIONS_TBL_USER') then
  alter table TBL_PESANAN
    delete foreign key FK_TBL_PESA_RELATIONS_TBL_USER
end if;

if exists(select 1 from sys.sysforeignkey where role='FK_TBL_PESA_RELATIONS_TBL_MEJA') then
  alter table TBL_PESANAN
    delete foreign key FK_TBL_PESA_RELATIONS_TBL_MEJA
end if;

if exists(select 1 from sys.sysforeignkey where role='FK_TBL_PESA_RELATIONS_TBL_PEMB') then
  alter table TBL_PESANAN
    delete foreign key FK_TBL_PESA_RELATIONS_TBL_PEMB
end if;

if exists(select 1 from sys.sysforeignkey where role='FK_TBL_RELA_RELATIONS_TBL_MENU')
then
  alter table tbl_RELATIONSHIP_2
    delete foreign key FK_TBL_RELA_RELATIONS_TBL_MENU
end if;

if exists(select 1 from sys.sysforeignkey where role='FK_TBL_RELA_RELATIONS_TBL_PESA') then
  alter table tbl_RELATIONSHIP_2
    delete foreign key FK_TBL_RELA_RELATIONS_TBL_PESA
end if;

drop index if exists TBL_MEJA.TBL_MEJA_PK;

drop table if exists TBL_MEJA;

drop index if exists TBL_MENU.TBL_MENU_PK;

drop table if exists TBL_MENU;

drop index if exists TBL_PEMBAYARAN.RELATIONSHIP_6_FK;

drop index if exists TBL_PEMBAYARAN.TBL_PEMBAYARAN_PK;

drop table if exists TBL_PEMBAYARAN;

drop index if exists TBL_PESANAN.RELATIONSHIP_5_FK;

drop index if exists TBL_PESANAN.RELATIONSHIP_4_FK;

```

drop index if exists TBL\_PESANAN.RELATIONSHIP\_1\_FK;

drop index if exists TBL\_PESANAN.TBL\_PESANAN\_PK;

drop table if exists TBL\_PESANAN;

drop index if exists TBL\_USER.TBL\_USER\_PK;

drop table if exists TBL\_USER;

drop index if exists tbl\_RELATIONSHIP\_2.RELATIONSHIP\_3\_FK;

drop index if exists tbl\_RELATIONSHIP\_2.RELATIONSHIP\_2\_FK;

drop index if exists tbl\_RELATIONSHIP\_2.TBL\_RELATIONSHIP\_2\_PK;

drop table if exists tbl\_RELATIONSHIP\_2;

```
/*=====*/
/* Table: TBL_MEJA */
/*=====*/
```

```
create table TBL_MEJA
(
  ID_MEJA      integer      not null,
  NOMOR_MEJA   char(5)      not null,
  constraint PK_TBL_MEJA primary key (ID_MEJA)
);
```

```
/*=====*/
/* Index: TBL_MEJA_PK */
/*=====*/
create unique index TBL_MEJA_PK on TBL_MEJA (
ID_MEJA ASC
);
```

```
/*=====*/
/* Table: TBL_MENU */
/*=====*/
```

```
create table TBL_MENU
(
  ID_MENU      integer      not null,
  GAMBAR_MENU  varchar(100)  null,
  NAMA_MENU    varchar(50)   not null,
  KETERANGAN  long varchar  null,
  HARGA        integer      not null,
  constraint PK_TBL_MENU primary key (ID_MENU)
);
```

```

/*=====*/
/* Index: TBL_MENU_PK */
/*=====*/
create unique index TBL_MENU_PK on TBL_MENU (
ID_MENU ASC
);

/*=====*/
/* Table: TBL_PEMBAYARAN */
/*=====*/
create table TBL_PEMBAYARAN
(
ID_PEMBAYARAN integer not null,
ID_USER integer null,
TANGGAL_PEMBAYARAN timestamp not null,
TOTAL_PEMBAYARAN integer not null,
METODE_PEMBAYARAN varchar(30) not null,
constraint PK_TBL_PEMBAYARAN primary key (ID_PEMBAYARAN)
);

/*=====*/
/* Index: TBL_PEMBAYARAN_PK */
/*=====*/
create unique index TBL_PEMBAYARAN_PK on TBL_PEMBAYARAN (
ID_PEMBAYARAN ASC
);

/*=====*/
/* Index: RELATIONSHIP_6_FK */
/*=====*/
create index RELATIONSHIP_6_FK on TBL_PEMBAYARAN (
ID_USER ASC
);

/*=====*/
/* Table: TBL_PESANAN */
/*=====*/
create table TBL_PESANAN
(
ID_PESANAN integer not null,
ID_MEJA integer null,
ID_USER integer null,
ID_PEMBAYARAN integer null,
JUMLAH integer not null,
TOTAL_HARGA integer not null,
TANGGAL_PESANAN timestamp not null,
constraint PK_TBL_PESANAN primary key (ID_PESANAN)
);

```

```

/*=====*/
/* Index: TBL_PESANAN_PK                                */
/*=====*/
create unique index TBL_PESANAN_PK on TBL_PESANAN (
ID_PESANAN ASC
);

/*=====*/
/* Index: RELATIONSHIP_1_FK                                */
/*=====*/
create index RELATIONSHIP_1_FK on TBL_PESANAN (
ID_USER ASC
);

/*=====*/
/* Index: RELATIONSHIP_4_FK                                */
/*=====*/
create index RELATIONSHIP_4_FK on TBL_PESANAN (
ID_MEJA ASC
);

/*=====*/
/* Index: RELATIONSHIP_5_FK                                */
/*=====*/
create index RELATIONSHIP_5_FK on TBL_PESANAN (
ID PEMBAYARAN ASC
);

/*=====*/
/* Table: TBL_USER                                          */
/*=====*/
create table TBL_USER
(
    ID_USER      integer      not null,
    USERNAME     varchar(50)   not null,
    PASS         varchar(50)   not null,
    NAMA         varchar(100)  not null,
    ALAMAT       varchar(100)  null,
    NO_TELEPON   varchar(50)   not null,
    PERAN        varchar(50)   not null,
    constraint PK_TBL_USER primary key (ID_USER)
);

/*=====*/
/* Index: TBL_USER_PK                                    */
/*=====*/
create unique index TBL_USER_PK on TBL_USER (

```

ID\_USER ASC

);

/\*=====\*/

/\* Table: tbl\_RELATIONSHIP\_2 \*/

/\*=====\*/

create table tbl\_RELATIONSHIP\_2

(

    ID\_MENU        integer        not null,

    ID\_PESANAN     integer        not null,

    constraint PK\_TBL\_RELATIONSHIP\_2 primary key clustered (ID\_MENU, ID\_PESANAN)

);

/\*=====\*/

/\* Index: TBL\_RELATIONSHIP\_2\_PK \*/

/\*=====\*/

create unique clustered index TBL\_RELATIONSHIP\_2\_PK on tbl\_RELATIONSHIP\_2 (

ID\_MENU ASC,

ID\_PESANAN ASC

);

/\*=====\*/

/\* Index: RELATIONSHIP\_2\_FK \*/

/\*=====\*/

create index RELATIONSHIP\_2\_FK on tbl\_RELATIONSHIP\_2 (

ID\_MENU ASC

);

/\*=====\*/

/\* Index: RELATIONSHIP\_3\_FK \*/

/\*=====\*/

create index RELATIONSHIP\_3\_FK on tbl\_RELATIONSHIP\_2 (

ID\_PESANAN ASC

);

alter table TBL\_PEMBAYARAN

    add constraint FK\_TBL\_PEMB\_RELATIONS\_TBL\_USER foreign key (ID\_USER)

        references TBL\_USER (ID\_USER)

        on update restrict

        on delete cascade;

alter table TBL\_PESANAN

    add constraint FK\_TBL\_PESA\_RELATIONS\_TBL\_USER foreign key (ID\_USER)

        references TBL\_USER (ID\_USER)

        on update restrict

        on delete cascade;

alter table TBL\_PESANAN



```
add constraint FK_TBL_PESA_RELATIONS_TBL_MEJA foreign key (ID_MEJA)
references TBL_MEJA (ID_MEJA)
on update restrict
on delete cascade;
```

```
alter table TBL_PESANAN
add constraint FK_TBL_PESA_RELATIONS_TBL_PEMB foreign key (ID_PEMBAYARAN)
references TBL_PEMBAYARAN (ID_PEMBAYARAN)
on update restrict
on delete cascade;
```

```
alter table tbl_RELATIONSHIP_2
add constraint FK_TBL_RELA_RELATIONS_TBL_MENU foreign key (ID_MENU)
references TBL_MENU (ID_MENU)
on update restrict
on delete cascade;
```

```
alter table tbl_RELATIONSHIP_2
add constraint FK_TBL_RELA_RELATIONS_TBL_PESA foreign key (ID_PESANAN)
references TBL_PESANAN (ID_PESANAN)
on update restrict
on delete cascade;
```