



ERD COFFEE SHOP

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USE CASE

Lisa adalah salah seorang pecinta kopi, Melati Coffee adalah kedai kopi langganannya. Bagi setiap pelanggan yang telah menjadi member akan mendapatkan diskon khusus apabila berkunjung pada hari ulang tahunnya. Tepat dihari ini tanggal 28 Juli Lisa berulang tahun dan memutuskan untuk berkunjung ke kedai kopi Melati Coffee, ia telah mendaftarkan dirinya sebagai member sejak 4 bulan yang lalu.



Entities, Relation, cardinality

1

Member Melakukan Pesanan
Relation : One to Many

2

Member Memilih Menu
Relation : Many to Many

3

Pesanan Melibatkan Menu
Relation : Many to Many

4

Member Melakukan Pembayaran
Relation : One to Many





Attributes



Member

Member_id (PK)
Nama_member
Tgl_lahir
jk
telp
alamat
Tgl_daftar



Pesanan

Order_id (PK)
Tgl_order
jam_order
Id_menu (FK)
Member_id (FK)



Menu

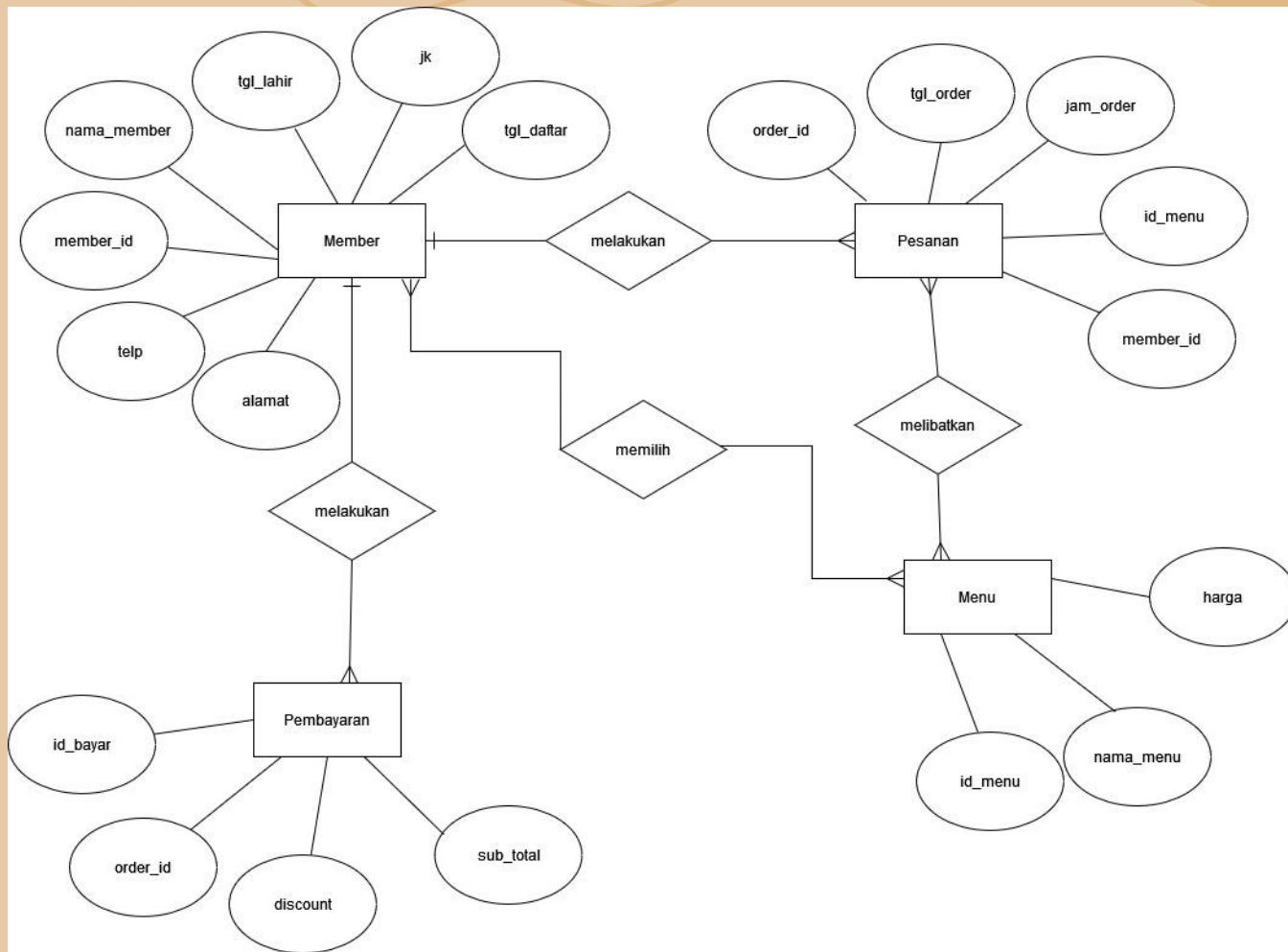
Id_menu (PK)
Nama_menu
harga



Pembayaran

Id_bayar (PK)
Order_id (FK)
Discount
Sub_total

ERD MELATI COFFEE



SAMPLE DATA ROW

Member	member_id	nama_member	tanggal_lahir	jenis_kelamin	telp	alamat	tanggal_daftar
	M0001	Clarissa	14/01/1995	Perempuan	081148729102	Rungkut	03/01/2021
	M0002	Melisa Jane	22/09/1998	Perempuan	082839451874	Sukolilo	29/01/2021
	M0003	Dimas Anton	16/04/1991	Laki-laki	082638940678	Gubeng	19/02/2021
	M0004	Lalisa	23/06/1997	Perempuan	081926387561	Genteng	15/03/2021

Pesanan	order_id	tanggal_order	jam_order	id_menu	member_id
	001	26/07/2021	09.05	C004	
	002	26/07/2021	09.45	C003	M0002
	003	27/07/2021	13.50	C002	M0002
	004	28/07/2021	10.08	C001	
	005	28/07/2021	14.10	C002	M0004

Menu	id_menu	nama_menu	harga
	C001	kopi susu	22.000
	C002	Kopi gula aren	24.000
	C003	Americano	18.000
	C004	Espresso	20.000

Pembayaran	id_bayar	order_id	discount	sub_total
	B001	001		20.000
	B002	002		18.000
	B003	003		24.000
	B004	004		22.000
	B005	005	15%	20.400

CREATE TABLE SYNTAX

```
create table coffee."member"(  
  "member_id" varchar(20) not null,  
  "nama_member" varchar(20) not null,  
  "tgl_lahir" date not null,  
  "jk" varchar(15) not null,  
  "telp" int not null,  
  "alamat" varchar(20) not null,  
  "tgl_daftar" date not null,  
  primary key ("member_id")  
);
```

```
ALTER TABLE member  
ALTER column telp SET data type  
varchar(20);
```

```
create table coffee."pesanan"(  
  "order_id" int not null,  
  "tgl_order" date not null,  
  "jam_order" time not null,  
  "id_menu" varchar(15) not null,  
  "member_id" varchar(20),  
  primary key ("order_id"),  
  constraint fk_member  
  foreign key ("member_id")  
  references coffee.member("member_id"),  
  constraint fk_menu  
  foreign key ("id_menu")  
  references coffee.menu("id_menu")  
);
```

CREATE TABLE SYNTAX

```
create table coffee."menu"(  
  "id_menu" varchar(15) not null,  
  "nama_menu" varchar(30) not null,  
  "harga" int not null,  
  primary key ("id_menu")  
);
```

```
create table coffee."pembayaran"(  
  "id_bayar" varchar(15) not null,  
  "order_id" int not null,  
  "discount" int,  
  "sub_total" int not null,  
  primary key ("id_bayar"),  
  constraint fk_pesanan  
  foreign key ("order_id")  
  references coffee.pesanan("order_id")  
);
```

```
ALTER TABLE pembayaran  
ALTER column discount SET data type  
decimal(3,2);
```


INSERT DATA

```
insert into coffee.member("member_id","nama_member","tgl_lahir","jk","telp","alamat","tgl_daftar")
values
('M0001','clarissa', to_Date('14/01/1995','dd/mm/yyyy'),'perempuan', 081148729102,'rungkut',to_Date('03/01/2021','dd/mm/yyyy')),
('M0002','melisa jane', to_Date('22/09/1998','dd/mm/yyy'),'perempuan',082839451874,'sukolilo',to_date('29/01/2021','dd/mm/yyy')),
('M0003','dimas anton', to_Date('16/04/1991','dd/mm/yyy'),'laki-laki',082638940678,'gubeng',to_date('19/02/2021','dd/mm/yyy')),
('M0004','lalisa', to_Date('23/06/1997','dd/mm/yyy'),'perempuan',081926387561,'genteng',to_date('15/03/2021','dd/mm/yyy'))
;
```

```
insert into coffee.menu("id_menu","nama_menu","harga")
values
('C001','kopi susu',22000),
('C002','kopi gula aren',24000),
('C003','americano',18000),
('C004','espresso',20000)
;
```

```
insert into coffee.pembayaran
("id_bayar","order_id","sub_total")
values
('B001',001,20000),
('B002',002,18000),
('B003',003,24000),
('B004',004,22000)
;
```

```
insert into coffee.pembayaran
("id_bayar","order_id","discount","sub_total")
values
('B005',005,0.15,20400);
```

INSERT DATA

```
insert into coffee.pesanan("order_id","tgl_order","jam_order","id_menu")
values
('001',to_date('26/07/2021','dd/mm/yyyy'), '09:05:10','C004');
```

```
insert into coffee.pesanan("order_id","tgl_order","jam_order","id_menu","member_id")
values
('002',to_date('26/07/2021','dd/mm/yyyy'), '09:45:26','C003','M0002'),
('003',to_date('27/07/2021','dd/mm/yyyy'), '13:50:46','C002','M0002')
;
```

```
insert into coffee.pesanan("order_id","tgl_order","jam_order","id_menu")
values
('004',to_date('28/07/2021','dd/mm/yyyy'), '10:08:29','C001');
```

```
insert into coffee.pesanan("order_id","tgl_order","jam_order","id_menu","member_id")
values
('005',to_date('28/07/2021','dd/mm/yyyy'), '14:10:56','C002','M0004')
;
```

ANALYSIS

Menu favorite Melati coffe

```
select m.nama_menu,  
count(p.id_menu) as jumlah  
from pesanan as p  
inner join menu as m  
on p.id_menu = m.id_menu  
group by nama_menu;
```

Result

	ABC nama_menu T↑	123 jumlah T↑
1	kopi gula aren	2
2	americano	1
3	espresso	1
4	kopi susu	1



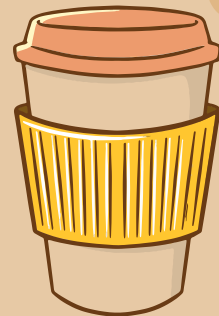
ANALYSIS

Member Paling Banyak Melakukan Order

```
select mb.nama_member,  
count(*) as total_pesan  
from pesanan as p  
inner join member as mb  
on mb.member_id =  
p.member_id  
group by nama_member;
```

Result

	nama_member	total_pesan
1	melisa jane	2
2	lalisa	1



ANALYSIS

Pemasukan per Hari

```
select p.tgl_order,  
sum(pb.sub_total) as  
pemasukan  
from pesanan as p  
inner join pembayaran as pb  
on p.order_id = pb.order_id  
group by tgl_order;
```

Result

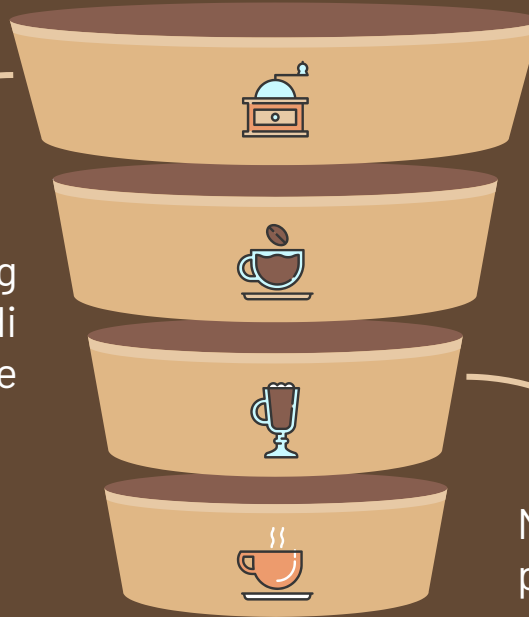
	🕒 tgl_order 🔼🔼	123 pemasukan 🔼🔼
1	2021-07-26	38,000
2	2021-07-27	24,000
3	2021-07-28	44,400





Conclusion

Melisa Jane adalah member yang melakukan order terbanyak di Melati coffee



Kopi gula aren merupakan menu favorite Melati Coffe karena memiliki jumlah pesanan tertinggi

Melati Coffee mencetak pendapatan harian tertinggi pada tanggal 28 Juli 2021

***Thank
you***

