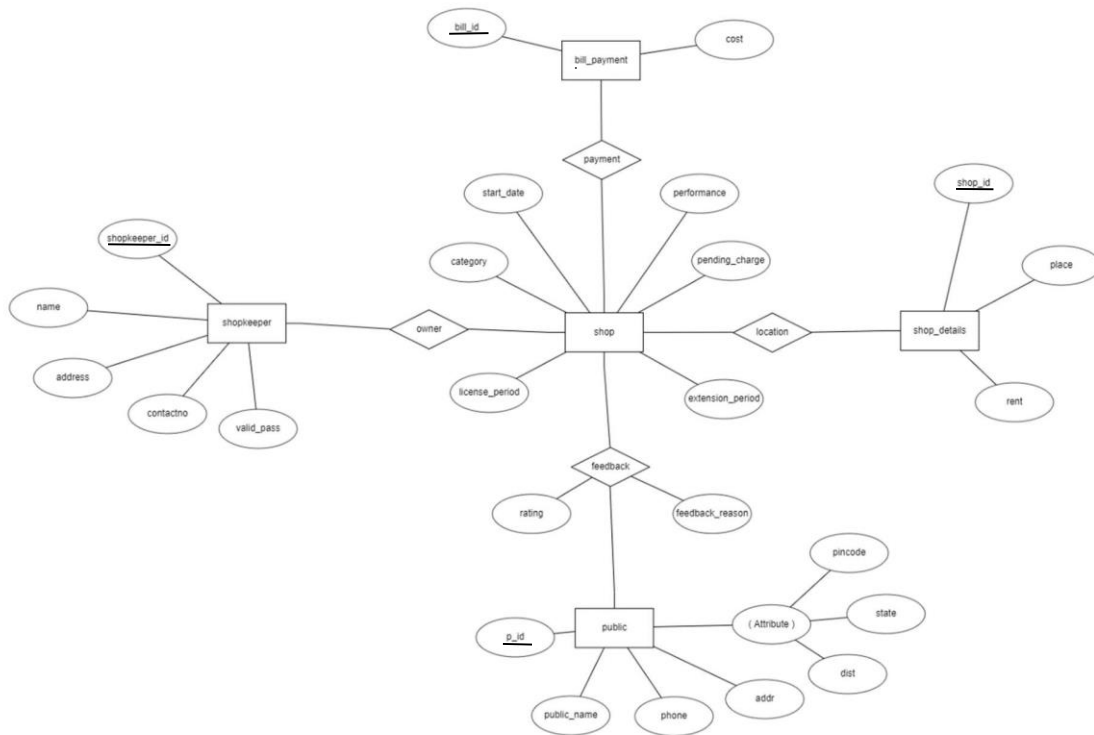


MARKET SHOP

ER DIAGRAM:



In this database it consists of total 5 entities:

- 1.bill_payment
- 2.shopkeeper
- 3.public
- 4.shop
- 5.shop_details

It also consists of relation:

- 1.feedback
- 2.location
- 4.payment

3.owner

Relationship:

Owner:

We have one to many relation ship for shopkeeper, shop.

Location:

We have many to one relation ship in shop, shop_details.

Feedback:

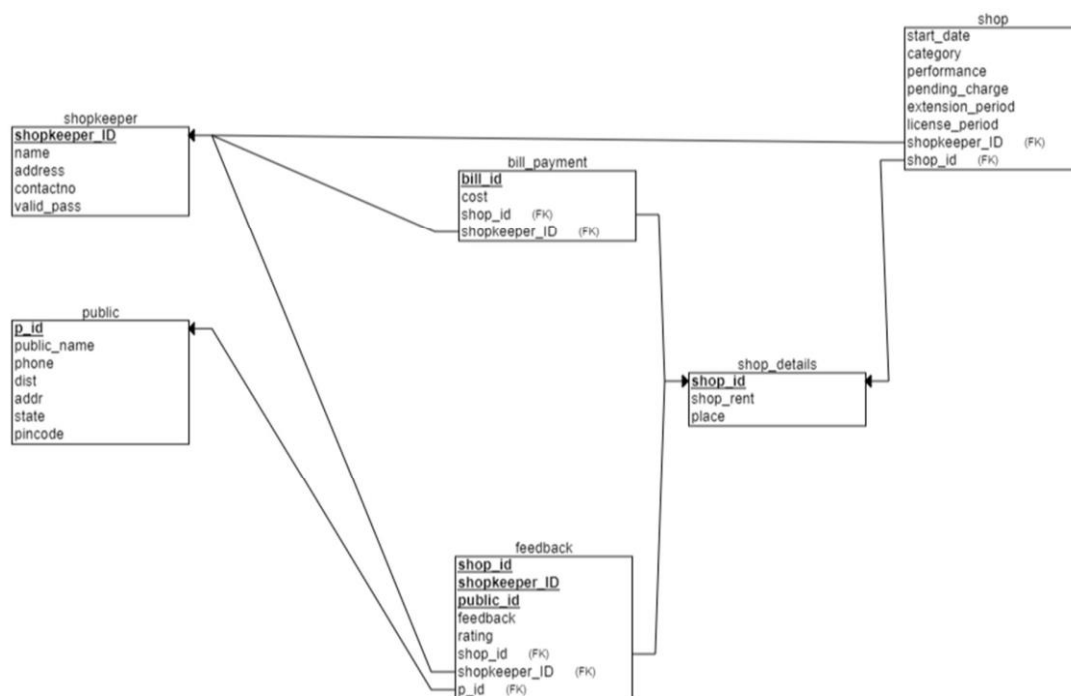
We have many to many relationship in shop, customer

Payment:

We have one to many relationship in shop ,bill_payment

////////////////////////////////////

Relational Schema:



////////////////////////////////////

TABLES:

In this we require 6 tables

1.public:

It contains the details of the customer such as name,address etc.,

Sql query: create table public(p_id int NOT NULL PRIMARY KEY, public_name varchar(50),phone bigint,addr varchar(50),dist varchar(50),state varchar(50),pincode int);

describe public;

Field	Type	Null	Key	Default	Extra
p_id	int(11)	NO	PRI	NULL	
public_name	varchar(50)	YES		NULL	
phone	bigint(20)	YES		NULL	
addr	varchar(50)	YES		NULL	dist
	varchar(50)	YES		NULL	
state	varchar(50)	YES		NULL	
pincode	int(11)	YES		NULL	

2.shopkeeper:

It contains details of the shopkeeper such as name,shopkeeper id, address etc.,

Mysql query: CREATE TABLE shopkeeper(shopkeeper_ID INT NOT NULL PRIMARY KEY,name varchar(50),address varchar(50),valid_pass varchar(50),contactno varchar(11));

Field	Type	Null	Key	Default	Extra
shopkeeper_ID	int(11)	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
address	varchar(50)	YES		NULL	
valid_pass	varchar(50)	YES		NULL	
contactno	varchar(11)	YES		NULL	

3.shop_details:

It contains the details of the shops such as owner name,shop id etc.,

Mysql query: create table shop_details(shop_id int NOT NULL PRIMARY KEY ,shop_rent int, place varchar(20));

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

Field	Type	Null	Key	Default	Extra
shop_id	int(11)	NO	PRI	NULL	
shop_rent	int(11)	YES		NULL	
place	varchar(20)	YES		NULL	

4. bill_payment:

It contains the pending bills has to be cleared by the shop.

Mysql Query: create table bill_payment(bill_id int NOT NULL , cost int,shop_id int ,shopkeeper_id int, PRIMARY KEY(bill_id),FOREIGN KEY(shop_id) REFERENCES shop_details(shop_id), FOREIGN KEY(shopkeeper_id) REFERENCES shopkeeper(shopkeeper_id));

Field	Type	Null	Key	Default	Extra
bill_id	int(11)	NO	PRI	NULL	
cost	int(11)	YES		NULL	
shop_id	int(11)	YES	MUL	NULL	
shopkeeper_id	int(11)	YES	MUL	NULL	

5. shop:

It contains the details of the respective shop.

Mysql Query:
create table shop(shop_id int,shopkeeper_id int,start_date date,category varchar(20),license_period smallint,extension_period smallint,pending_charge int,performance float,foreign key(shop_id) REFERENCES shop_details(shop_id),FOREIGN KEY(shopkeeper_id) REFERENCES shopkeeper(shopkeeper_id));

Field	Type	Null	Key	Default	Extra
shop_id	int(11)	YES	MUL	NULL	
shopkeeper_id	int(11)	YES	MUL	NULL	
start_date	date	YES		NULL	
category	varchar(20)	YES		NULL	
license_period	smallint(6)	YES		NULL	

extension_period	smallint(6)	YES		NULL		
pending_charge	int(11)	YES		NULL		
performance	float	YES		NULL		
+-----+-----+-----+-----+-----+						

6.Feedback:

It contains the feedback of the customer.

Mysql Query:

```
create table feedback(shop_id int,shopkeeper_ID int,public_id int,feedback text,rating
smallint,FOREIGN KEY(public_id) REFERENCES public(public_id));
```

+-----+-----+-----+-----+-----+						
Field	Type	Null	Key	Default	Extra	
+-----+-----+-----+-----+-----+						
shop_id	int(11)	YES		NULL		
shopkeeper_ID	int(11)	YES		NULL		
public_id	int(11)	YES		NULL		
feedback	text	YES		NULL		
rating	smallint(6)	YES		NULL		
+-----+-----+-----+-----+-----+						

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Triggers:

1.update_rating:

It will trigger when we insert a feedback in feedback table and it will the update the rating of the respective shop_id.

```
Delimiter $$ create trigger update_rating AFTER INSERT ON feedback FOR EACH
ROW
```

```
BEGIN
```

```
DECLARE avg_rating FLOAT DEFAULT 0;
```

```
SELECT SUM(rating)/count(*) INTO avg_rating FROM feedback where
feedback.shopkeeper_ID=new.shopkeeper_ID AND feedback.shop_id=new.shop_id;
```

```
UPDATE shop SET Performance=avg_rating where shop.shopkeeper_id=new.shopkeeper_id AND
shop.shop_id=new.shop_id;
```

END \$\$ DELIMITER

;

Verifying trigger:

select * from shop where shop_id=501;

shop_id	shopkeeper_id	start_date	category	license_period	extension_period	pending_charge	performance
501	701	2022-09-20	nescafe	100	60	7600	2

MariaDB [miniproject]> insert into feedback values(501,701,102,'good',5);

select * from shop where shop_id=501;

shop_id	shopkeeper_id	start_date	category	license_period	extension_period	pending_charge	performance
501	701	2022-09-20	nescafe	100	60	7600	3.5

Mysql query: insert into feedback values('502','703','109','nice',2);

2.after_billpayment:

It will trigger when the new bill has paid and updated in the bill_payment table and it will update the pending charges of the shop accordingly.

Delimiter \$\$ create trigger after_billpayment AFTER INSERT on

bill_payment

FOR EACH ROW

BEGIN

UPDATE shop set pending_charge=pending_charge-new.cost where
shop.shopkeeper_id=new.shopkeeper_id and shop.shop_id=new.shop_id;

END \$\$ Delimiter;

Verifying trigger: select * from shop where
shop_id=501;

shop_id	shopkeeper_id	start_date	category	license_period	extension_period	pending_charge	performance
501	701	2022-09-20	nescafe	100	60	10000	3.5

insert into bill_payment values(906,5050,505,706); select * from

shop;

shop_id	shopkeeper_id	start_date	category	license_period	extension_period	pending_charge	performance
501	701	2022-09-20	nescafe	100	60	7600	3.5

mysql query: insert into bill_payment values(911,1000,501,701);

////////////////////////////////////

Queries:

1.Details of shop details of different areas of the campus:

Mysql:select * from shop NATURAL JOIN shop_details;

shop_id	shopkeeper_id	start_date	category	license_period	extension_period	pending_charge	performance	shop_rent	place
501	701	2022-09-20	nescafe	100	60	7600	3	5000	kalam
502	703	2022-09-22	generalstore	150	30	14000	3	6000	Foodcourt
503	704	2022-07-24	foodstall	100	30	9000	3	6000	Foodcourt
504	705	2022-11-16	generalstore	100	30	10960	3.5	7000	bquarters

2.Details of shopkeepers :

It contains the details of the shopkeeper like name ,address and mainly security pass.

mysql query: select * from shopkeeper;

shopkeeper_ID	name	address	valid_pass	contactno
701	sk_1	s_ad_1	yes	1234565891
702	sk_2	s_ad_2	yes	1234565892
703	sk_3	s_ad_3	yes	1234565893
704	sk_4	s_ad_4	yes	1234565894
705	sk_5	s_ad_5	yes	1234565895
706	sk_6	s_ad_6	yes	1234565896

707	sk_7	s_ad_7	yes	1234565897
708	sk_8	s_ad_8	yes	1234565898

Mysql query: select shopkeeper_ID,valid_pass from shopkeeper;

shopkeeper_ID	valid_pass
701	yes
702	yes
703	yes
704	yes
705	yes
706	yes
707	yes
708	yes

3.Pending charges from each shops:

We can also show the shops with pending bills and total amount of pending_charges

Mysql query: select shop_id,pending_charge from shop;

shop_id	pending_charge
501	7600
502	14000
503	9000
504	10960

4.Summary of performance of the shop:

It shows the shop_id and shopkeeper id and mainly performance of the shop which is given by the

Mysql query: select shop_id,shopkeeper_id,performance from shop; +-----+-----+-----

-----+

| shop_id | shopkeeper_id | performance |

+-----+-----+-----+

| 501 | 701 | 3 |

| 502 | 703 | 3 |

| 503 | 704 | 3 |

| 504 | 705 | 3.5 |

+-----+-----+-----+

5. Reminders for expiring license agreement period:

It shows the list of the shops whose license will expire within a month

Mysql query : SELECT shopkeeper_id, shop_id FROM Shop WHERE DATEDIFF (DATE ADD
(Start Date,
INTERVAL (License_Period+Extension_Period)MONTH), CURDATE()) <= 30;