

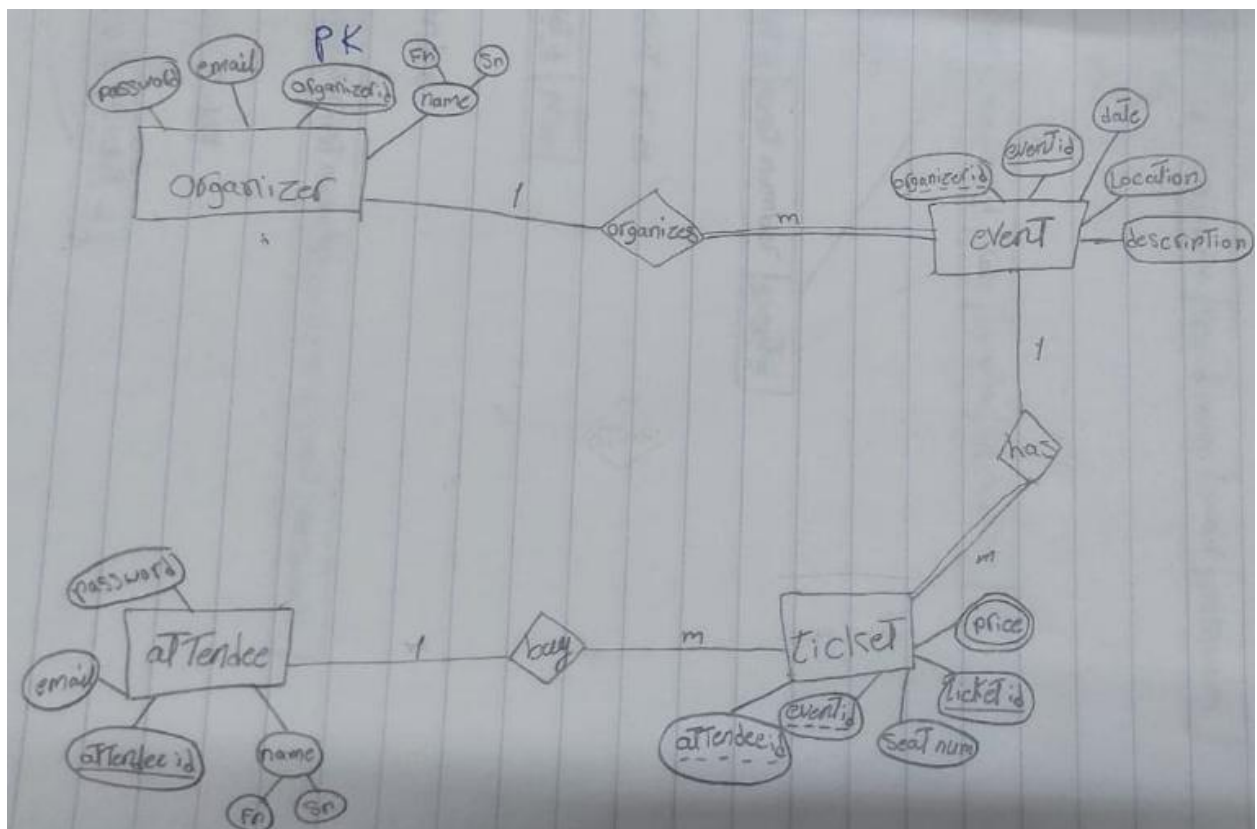
# Event management system

## Intro:

The Event Management System is a database-based system that helps organize events more easily and efficiently. The goal of the system is to make it simple for organizers to create events and define all related details like the name, location, time, and number of tickets.

It also helps attendees view available events, book their tickets easily, and keep track of their reservations.

## ERD:



The system includes main entities such as:

Organizer

Event

Ticket

Attendee

Entities and their attributes:

➤ Organizer

- Organizer\_id    PK
- Name
- Password
- Email

➤ Event

- Organizer\_id    FK
- Event\_id        PK
- Date
- Location
- Description

➤ **Ticket**

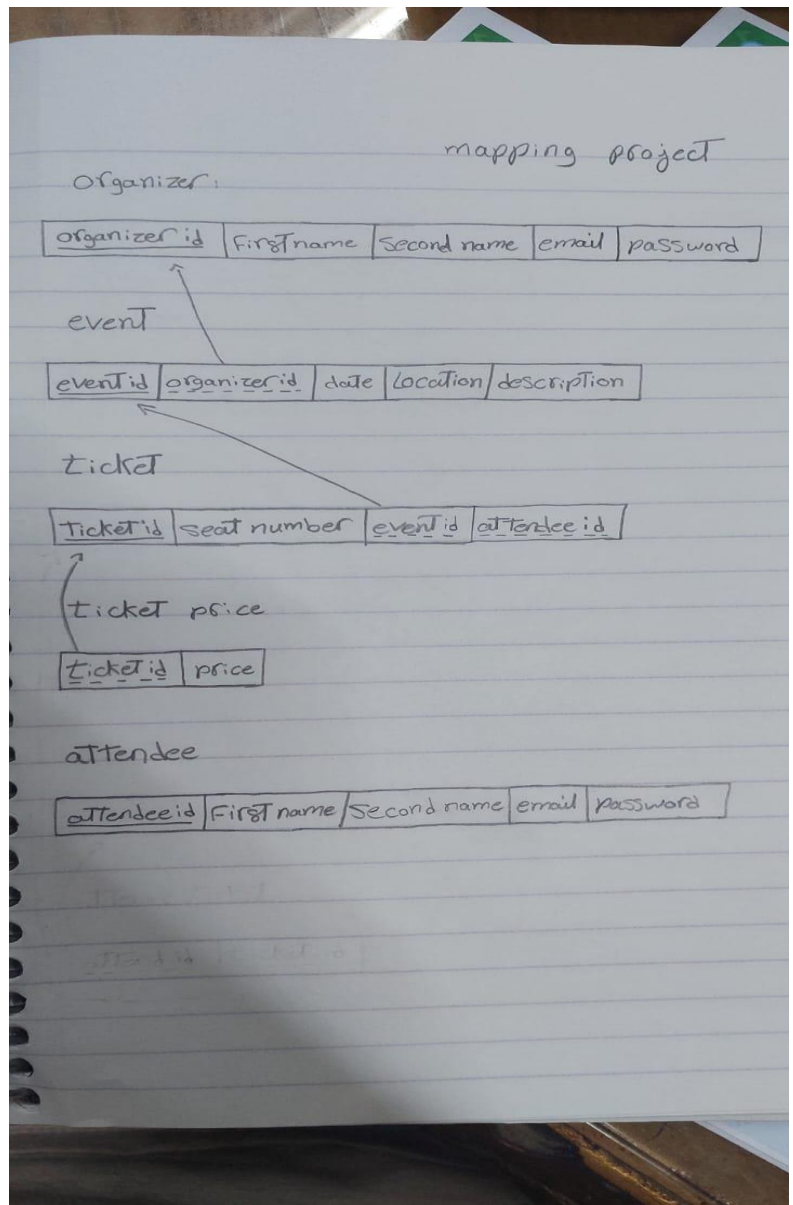
- **Ticket\_id**    **PK**
- **Attendee\_id**    **FK**
- **Event\_id**    **FK**
- **Seat num**
- **Price**

➤ **Attendee**

- **Attendee\_id**    **FK**
- **Name**
- **Email**
- **Password**

- ✓ Each entity is connected through well-structured relationships, which makes managing and accessing data simple and clear.

# Mapping:



## SQL & Some queries:

## Create database

```
mysql> DESCRIBE ticket_price;
```

Field	Type	Null	Key	Default	Extra
ticket_id	int	NO	PRI	NULL	
price	varchar(20)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> DESCRIBE ticket;
```

Field	Type	Null	Key	Default	Extra
ticket_id	int	NO	PRI	NULL	
event_id	int	YES	MUL	NULL	
seat_num	varchar(50)	YES		NULL	
price	decimal(5,2)	YES		NULL	

4 rows in set (0.02 sec)

```
mysql> DESCRIBE Attendee;
```

Field	Type	Null	Key	Default	Extra
attendee_id	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
password	varchar(50)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> SHOW COLUMNS FROM Organizer;
```

Field	Type	Null	Key	Default	Extra
organizer_id	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
email	varchar(50)	YES		NULL	
password	varchar(50)	YES		NULL	

4 rows in set (0.01 sec)

```
mysql> DESCRIBE Event;
```

Field	Type	Null	Key	Default	Extra
event_id	int	NO	PRI	NULL	
organizer_id	int	YES	MUL	NULL	
description	text	YES		NULL	
location	varchar(50)	YES		NULL	
date	date	YES		NULL	

5 rows in set (0.00 sec)

## Inserte data into tables:

```
mysql> select * from Organizer;
```

organizer_id	name	email	password
1	Ali Hassan	ali@example.com	pass123
2	Sara Ahmed	sara@example.com	sara456
3	Omar Adel	omar@example.com	omar789
4	Mona Khaled	mona@example.com	mona321
5	Hassan Zaki	hassan@example.com	hz456
6	Laila Nabil	laila@example.com	laila654
7	Tamer Hany	tamer@example.com	th123
8	Eman Saad	eman@example.com	eman987
9	Mahmoud Gamal	mahmoud@example.com	mg456
10	Nada Yasser	nada@example.com	ny111

```
10 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM ticket;
```

ticket_id	event_id	seat_num	price
1	101	A1	150.00
2	101	A2	150.00
3	102	B1	100.00
4	103	C3	200.00
5	104	D5	120.00
6	105	E2	180.00
7	106	F4	160.00
8	107	G1	130.00
9	108	H3	140.00
10	109	I2	170.00

```
10 rows in set (0.01 sec)
```

```
mysql> select * from Attendee;
```

attendee_id	name	email	password
1	Ahmed Ali	ahmed@example.com	ah123
2	Salma Youssef	salma@example.com	salma456
3	Khaled Tamer	khaled@example.com	kt789
4	Huda Farid	huda@example.com	hf321
5	Yasser Nabil	yasser@example.com	yn654
6	Mariam Adel	mariam@example.com	ma456
7	Rami Saeed	rami@example.com	rs987
8	Dina Omar	dina@example.com	do123
9	Nour Hossam	nour@example.com	nh789
10	Fady Reda	fady@example.com	fr111

```
10 rows in set (0.00 sec)
```

```
mysql> select * from Event;
```

event_id	organizer_id	description	location	date
101	1	Music Concert	Cairo	2025-07-01
102	2	Art Gallery	Alexandria	2025-07-05
103	3	Book Festival	Cairo	2025-07-10
104	4	Music Concert	Giza	2025-07-12
105	5	Art Gallery	Mansoura	2025-07-15
106	6	Science Expo	Tanta	2025-07-17
107	7	Photography Contest	Ismailia	2025-07-20
108	8	Food Festival	Cairo	2025-07-22
109	9	Gaming Convention	Alexandria	2025-07-25
110	10	Science Expo	Cairo	2025-07-28

```
10 rows in set (0.00 sec)
```

```
mysql> INSERT INTO ticket_price (ticket_id, price)
-> SELECT ticket_id, price
-> FROM ticket;
```

```
Query OK, 10 rows affected (0.01 sec)
```

```
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM ticket_price;
```

ticket_id	price
1	150.00
2	150.00
3	100.00
4	200.00
5	120.00
6	180.00
7	160.00
8	130.00
9	140.00
10	170.00

```
10 rows in set (0.00 sec)
```

Apply some important queries in sql:

```
mysql> SELECT event_id, organizer_id FROM event WHERE location = 'cairo';
```

event_id	organizer_id
101	1
103	3
108	8
110	10

```
4 rows in set (0.00 sec)
```

```
mysql> SELECT event.event_id,
-> organizer.organizer_id,
-> event.description,
-> organizer.name AS 'organizer_name'
-> FROM event
-> INNER JOIN organizer ON event.organizer_id = organizer.organizer_id;
```

event_id	organizer_id	description	organizer_name
101	1	Music Concert	Ali Hassan
102	2	Art Gallery	Sara Ahmed
103	3	Book Festival	Omar Adel
104	4	Music Concert	Mona Khaled
105	5	Art Gallery	Hassan Zaki
106	6	Science Expo	Laila Nabil
107	7	Photography Contest	Tamer Hany
108	8	Food Festival	Eman Saad
109	9	Gaming Convention	Mahmoud Gamal
110	10	Science Expo	Nada Yasser

```
10 rows in set (0.00 sec)
```

```
mysql> SELECT SUM(price) AS 'total revenue' FROM ticket;
```

total revenue
1500.00

```
1 row in set (0.01 sec)
```

```
mysql> |
```



```
mysql> Select* from attendee order by name ;
```

attendee_id	name	email	password
1	Ahmed Ali	ahmed@example.com	ah123
8	Dina Omar	dina@example.com	do123
10	Fady Reda	fady@example.com	fr111
4	Huda Farid	huda@example.com	hf321
3	Khaled Tamer	khaled@example.com	kt789
6	Mariam Adel	mariam@example.com	ma456
9	Nour Hossam	nour@example.com	nh789
7	Rami Saeed	rami@example.com	rs987
2	Salma Youssef	salma@example.com	salma456
5	Yasser Nabil	yasser@example.com	yn654

```
10 rows in set (0.00 sec)
```