

Database Design - FlyAway

Create DB and tables

```
DROP DATABASE IF EXISTS fly_away;
CREATE DATABASE fly_away;
USE fly_away;

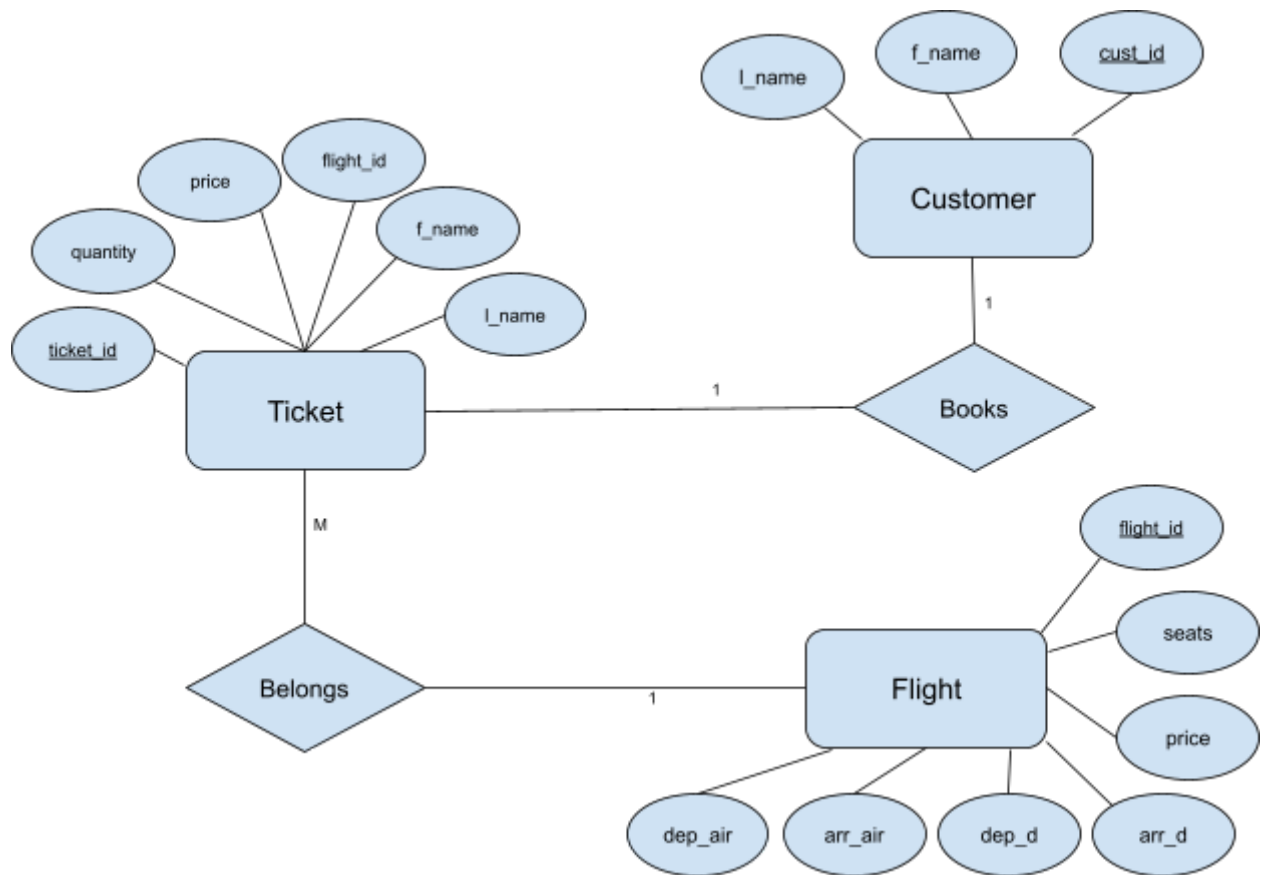
CREATE TABLE Customer(
customer_id INTEGER NOT NULL AUTO_INCREMENT,
first_name VARCHAR (50) NOT NULL,
last_name VARCHAR (50) NOT NULL,
PRIMARY KEY (customer_id)
);

CREATE TABLE Flight(
flight_id INTEGER,
dep_airport VARCHAR (3) NOT NULL,
arr_airport VARCHAR (3) NOT NULL,
dep_time DATETIME NOT NULL,
arr_time DATETIME NOT NULL,
available_seats INTEGER NOT NULL,
price INTEGER NOT NULL,
PRIMARY KEY (flight_id)
);

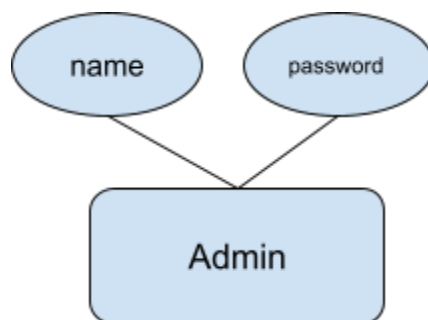
CREATE TABLE Ticket(
ticket_id INTEGER NOT NULL AUTO_INCREMENT,
first_name VARCHAR (50) NOT NULL,
last_name VARCHAR (50) NOT NULL,
flight_id INTEGER NOT NULL,
quantity INTEGER DEFAULT 1,
price INTEGER NOT NULL,
status VARCHAR (10) NOT NULL,
PRIMARY KEY (ticket_id)
);

CREATE TABLE Admin(
id INTEGER NOT NULL AUTO_INCREMENT,
name VARCHAR (50) NOT NULL,
password VARCHAR (50) NOT NULL,
PRIMARY KEY (id)
);
```

Entity Relationship Diagram



Admin Table



MySQL showing tables screenshots

Using fly_away database and show all tables

```
mysql> show tables;
+-----+
| Tables_in_fly_away |
+-----+
| Admin               |
| Customer            |
| Flight              |
| Ticket              |
+-----+
4 rows in set (0.00 sec)
```

Describing the table Customer

```
mysql> describe Customer;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| customer_id    | int           | NO   | PRI | NULL    | auto_increment |
| first_name     | varchar(50)   | NO   |     | NULL    |                |
| last_name      | varchar(50)   | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.03 sec)
```

Describing the table Flight

```
mysql> describe Flight;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| flight_id      | int           | NO   | PRI | NULL    |                |
| dep_airport    | varchar(3)    | NO   |     | NULL    |                |
| arr_airport    | varchar(3)    | NO   |     | NULL    |                |
| dep_time       | datetime      | NO   |     | NULL    |                |
| arr_time       | datetime      | NO   |     | NULL    |                |
| available_seats | int           | NO   |     | NULL    |                |
| price          | int           | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

Describing the table Ticket

```
mysql> describe Ticket;
```

Field	Type	Null	Key	Default	Extra
ticket_id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
flight_id	int	NO		NULL	
quantity	int	YES		1	
price	int	NO		NULL	
status	varchar(10)	NO		NULL	

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

Showing all the available flights added to the database

```
mysql> select * from Flight;
```

flight_id	dep_airport	arr_airport	dep_time	arr_time	available_seats	price
101	SFO	LAX	2021-12-31 17:30:00	2021-12-31 18:25:00	240	120
102	JFK	LAX	2021-12-31 12:30:00	2021-12-31 15:45:00	320	400
103	LAX	SFO	2021-12-31 20:10:00	2021-12-31 21:05:00	160	120
104	SMF	JFK	2021-12-30 20:10:00	2021-12-31 00:10:00	200	430

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

Showing all tickets

```
mysql> select * from Ticket;
```

ticket_id	first_name	last_name	flight_id	quantity	price	status
1001	Payam	Dowlatyari	102	1	120	pending

```
1 row in set (0.00 sec)
```