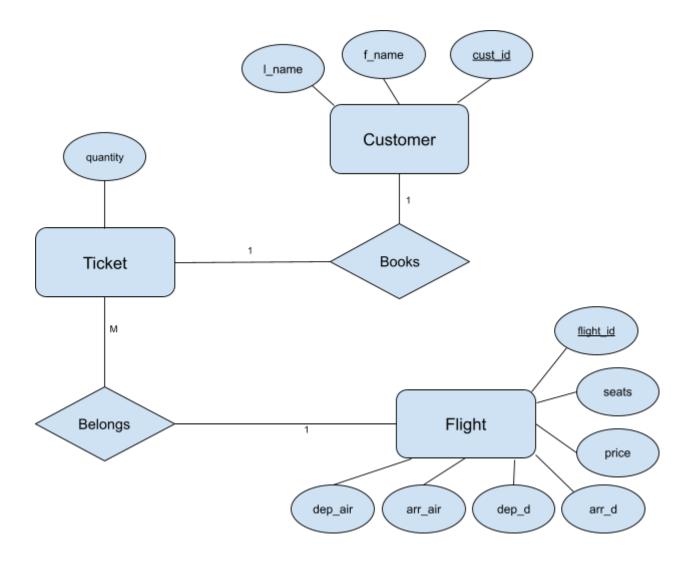
Database Design - FlyAway

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(
customer_id INTEGER,
flight_id INTEGER,
quantity INTEGER NOT NULL,
PRIMARY KEY (customer_id, flight_id),
FOREIGN KEY (customer_id) REFERENCES Customer (customer_id) ON DELETE CASCADE,
FOREIGN KEY (flight_id) REFERENCES Flight (flight_id) ON DELETE CASCADE
);
```

Entity Relationship Diagram



MySQL showing tables screenshots

Using fly_away database and show all tables

Describing the table Customer

mysql> describe	Customer;				
Field	Туре	Null	Key	Default	Extra
customer_id first_name last_name	int varchar(50) varchar(50)	N0 N0 N0	PRI	NULL NULL NULL	auto_increment
3 rows in set (0.03 sec)		,	,	

Describing the table Flight

```
mysql> describe Flight;
| Field
                    Type
                                 Null |
                                        Key |
                                              Default
                                                         Extra
 flight_id
                    int
                                 N0
                                         PRI
                                               NULL
 dep_airport
                    varchar(3)
                                 N0
                                               NULL
 arr_airport
                    varchar(3)
                                 N0
                                               NULL
 dep_time
                    datetime
                                 N0
                                               NULL
 arr_time
                    datetime
                                 N0
                                               NULL
 available_seats
                   int
                                 N0
                                               NULL
 price
                    int
                                 N0
                                               NULL
 rows in set (0.00 sec)
```

Describing the table Ticket

mysql> describe + Field	·	·	+ Key	Default	++ Extra
 customer_id flight_id quantity	int int int	N0 N0 N0	PRI PRI PRI	NULL NULL NULL	auto_increment
quantity + 3 rows in set (+	NULL	 +

Showing all the available flights added to the database

mysql> select * from Fligh	t;			
flight_id dep_airport	arr_airport	dep_time	arr_time	available_seats price
101 SF0 102 JFK 103 LAX	LAX LAX SFO	2021-12-31 17:30:00 2021-12-31 12:30:00 2021-12-31 20:10:00	2021-12-31 18:25:00 2021-12-31 15:45:00 2021-12-31 21:05:00	240 100 320 400 160 120
3 rows in set (0.00 sec)	,			