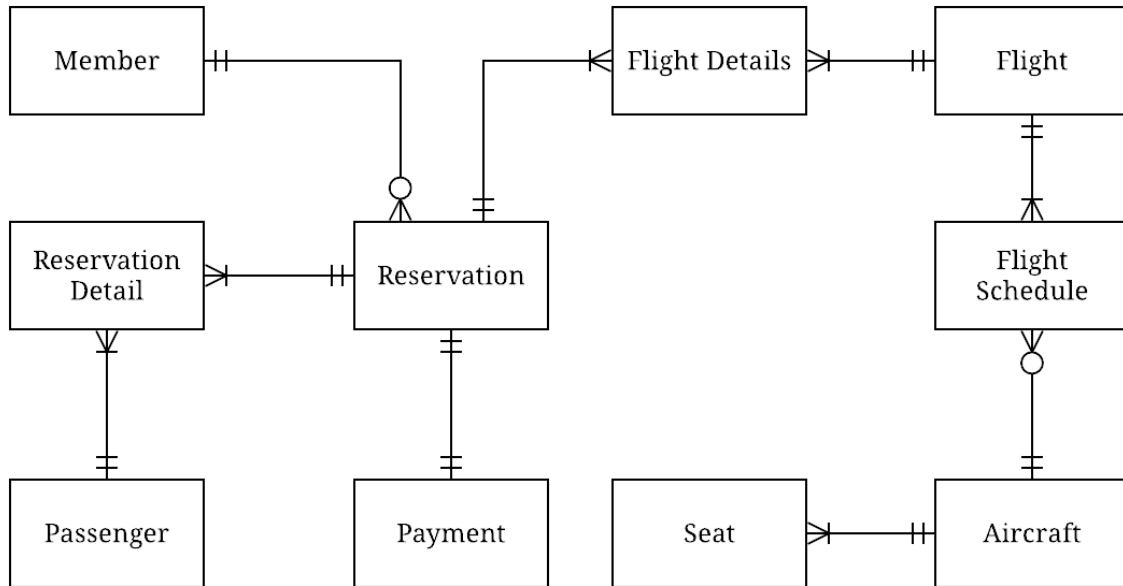


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1.0 Resolve ERD diagram



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2.0 Attribute and keys

Aircraft(aircraft_id, aircraft_model, aircraft_qty)

Flight(flight_id, origin, destination, departure_date, return_date)

Flight_Details(flight_id*, reservation_id*)

Flight_Schedule(flight_id*, aircraft_id*, scheduled_departure_time, scheduled_arrival_time, duration)

Member(member_id, memberName, email, phoneNo, password)

Passenger(passenger_id, passengerName, dateOfBirth, gender, contact)

Payment(payment_id, payment_date, payment_amount, payment_status, payment_method, reservation_id*)

Reservation(reservation_id, reservation_date, noOfPassenger, member_id*)

Reservation_Details(passenger_id*, reservation_id*)

Seat(seat_id, seatNo, travel_class, aircraft_id*)

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4.0 Table design

4.1 Aircraft

Field Name	Data Type	Remarks	Format
aircraft_id	varchar(10)	Primary key	-
aircraft_model	varchar(20)	Not null	-
aircraft_qty	number	Not null	-

4.2 Flight

Field Name	Data Type	Remarks	Format
flight_id	varchar(6)	Primary key	-
origin	varchar(30)	Not null	-
destination	varchar(30)	Not null	-
departure_date	date	Not null	DD/MM/YYYY
return_date	date	Not null	DD/MM/YYYY

4.3 Flight_Details

Field Name	Data Type	Remarks	Format
flight_id	varchar(6)	Primary key, Foreign key	-
reservation_id	varchar(11)	Primary key, Foreign key	-

4.4 Flight_Schedule

Field Name	Data Type	Remarks	Format
flight_id	varchar(6)	Primary key, Foreign key	-
aircraft_id	varchar(10)	Primary key, Foreign key	-
scheduled_departure_time	Date	Not null	HH24:MI
scheduled_arrival_time	Date	Not null	HH24:MI
duration	varchar(20)	Not null	-

4.5 Member

Field Name	Data Type	Remarks	Format
member_id	varchar(20)	Primary key	-
memberName	varchar(30)	Not null	-
email	varchar(30)	Unique	-
phoneNo	varchar(14)	Unique	-
password	varchar(20)	Unique	-

4.6 Passenger

Field Name	Data Type	Remarks	Format
passenger_id	varchar(20)	Primary key	-
passengerName	varchar(30)	Not null	-
dateOfBirth	Date	Not null	DD/MM/YYYY
gender	char	Not null	'M' or 'F'
contact	varchar(14)	Unique	-

4.7 Payment

Field Name	Data Type	Remarks	Format
payment_id	varchar(6)	Primary key	-
payment_date	Date	Not null	DD/MM/YYYY
payment_amount	number(8,2)	Not null	-
payment_method	varchar(25)	Not null	-
payment_status	varchar(15)	Not null	-
reservation_id	varchar(5)	Foreign key	-

4.8 Reservation

Field Name	Data Type	Remarks	Format
reservation_id	varchar(11)	Primary key	-
reservation_date	Date	Not null	DD/MM/YYYY
noOfPassenger	number	Not null	-
member_id	varchar(13)	Foreign key	-

4.9 Reservation_Details

Field Name	Data Type	Remarks	Format
reservation_id	varchar(5)	Primary key, Foreign key	-
passenger_id	varchar(13)	Primary key, Foreign key	-

4.10 Seat

Field Name	Data Type	Remarks	Format
seat_id	varchar(6)	Primary key	-

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seatNo	varchar(3)	Not null	-
travel_class	varchar(2 5)	Not null	-
aircraft_id	varchar(10)	Foreign key	-

5.0 Data Records

5.1 Aircraft

aircraft_id	aircraft_model	aircraft_qty
9MA3100209	Airbus	1
9MA3300610	Airbus	2
9MA3401212	Airbus	1
9MB7030113	Boeing 707	3
9MB7390214	Boeing 737-900	3

5.2 Flight

flight_id	origin	destination	depart_date	return_date
SA0001	Kuala Lumpur	Kuala Terrengganu	01/07/2019	01/07/2019
SA0002	Kuching	Bintulu	21/07/2019	21/07/2019
SA0003	Kuala Lumpur	Chennai	01/08/2019	02/08/2019
SA0004	Kuala Lumpur	Denpasar-Bali	01/08/2019	03/08/2019
SA0005	Kuala Lumpur	Fuzhou	01/08/2019	03/08/2019

5.3 Flight_Details

flight_id	reservation_id
SA0001	R0104190001
SA0002	R0104190002
SA0003	R0204190003
SA0004	R0204190004
SA0005	R0204190005

5.4 Flight_Schedule

flight_id	aircraft_id	scheduled_departure_time	scheduled_arrival_time	duration
SA0001	9MA3100209	07:05	08:05	1 hr
SA0002	9MA3300610	07:05	09:05	2 hrs
SA0003	9MA3401212	10:05	13:40	3 hrs 35 mins
SA0004	9MB7030113	16:05	20:00	3 hrs 50 mins
SA0005	9MB7390214	12:00	16:50	4 hrs 50 mins

5.5 Member

member_id	memberName	email	phoneNo	password
11135280MYPNGNS	Nadheer bin Subhi	nad671110@gmail.co	011-7294439	nad88777
15127469MYKLYH	Yang Hong	yhong0428@yahoo.co	012-3057515	890248yh
1787849MYJHRTWC	Tom Wong Chun	tom80@gmail.com	012-1509848	T800218wc
661842MYSWKFMM	Foong Moi Mai	FoongMM@gmail.com	017-5883182	foongMai00
6744101MYPLSHM	Hiba binti Mahboob	hibamah64@yahoo.co	016-8423357	hiba640411

5.6 Passenger

passenger_id	passengerName	dateOfBirth	gender	Contact
SA001S00001TWC	Tom Wong Chun	12/02/1980	M	012-1509848
SA002S00002YH	Yang Hong	28/04/1989	M	012-3057515
SA002S00003LS	Li Shun	09/09/2000	F	016-4561478
SA003S00004NS	Nadheer bin Subhi	10/11/1967	M	011-7294439
SA004S00005FMM	Foong Moi Mai	07/09/2000	F	017-5883182
SA005S00006TWC	Tom Wong Chun	12/02/1980	M	012-1509848

5.7 Payment

payment_id	payment_date	payment_amount	payment_method	payment_status	reservation_id
P10201	01/04/2019	98.30	Credit Card	Complete	R0104190001
P10202	01/04/2019	164.23	Debit Card	Complete	R0104190002
P10203	02/04/2019	500.10	Credit Card	Complete	R0204190003
P10204	02/04/2019	243.67	Credit Card	Complete	R0204190004
P10205	02/04/2019	358.60	Online banking	Pending	R0204190005

5.8 Reservation

reservation_id	reservation_date	no_of_passenger	member_id
R0104190001	01/04/2019	1	1787849MYJHRTWC
R0104190002	01/04/2019	2	15127469MYKLYH
R0204190003	02/04/2019	1	661842MYSWKFM
R0204190004	02/04/2019	1	11135280MYPNGNS
R0204190005	02/04/2019	1	1787849MYJHRTWC

5.9 Reservation_Details

reservation_id	passenger_id
R0104190001	SA001S00001TWC
R0104190002	SA002S00002YH
R0104190002	SA002S00003LS
R0204190004	SA003S00004NS
R0204190003	SA004S00005FMM
R0204190005	SA005S00006TWC

5.10 Seat

seat_id	seatNo	travel_class	aircraft_id
S00001	1A	First Class	9MA3100209
S00002	6B	Business Class	9MA3300610
S00003	14E	Premium Economy Class	9MA3300610
S00004	15E	Premium Economy Class	9MA3401212
S00005	20F	Economy Class	9MB7030113
S00006	31A	Economy Class	9MB7390214