

Clients				
PK/FK	Name	Description	type	Constraint
PK	client_id	unique id	INTEGER	
	client_name		TEXT	NOT NULL
	passport_number		TEXT	NOT NULL, CHECK(regex)
	citizenship		TEXT	NOT NULL
Tickets				
PK/FK	Name	Description	type	Constraint
PK	seat_number	number of seat on plane	TEXT	CHECK(regex)
FK	flight_id	unique id	INTEGER	NOT NULL, FK Flights(flight_id)
FK	client_id		INTEGER	NOT NULL, FK Clients(client_id)
	class	class of ticket	TEXT	NOT NULL, CHECK(in (Econom, Business))
Flights				
PK/FK	Name	Description	type	Constraint
PK	flight_id	unique id	INTEGER	
FK	airplane_id	unique id	INTEGER	NOT NULL, FK Airplanes(airplane_id)
FK	route_id	unique id	INTEGER	NOT NULL, FK Routes(route_id)
	departure_time		DATE TIME	NOT NULL, CHECK(departure_time < arrival_time)
	arrival_time		DATE TIME	NOT NULL, CHECK(departure_time < arrival_time)

<b>Crew members</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>
PK	member_id	unique id	INTEGER	
	member_name		TEXT	NOT NULL
	date_of_birth		DATE	NOT NULL
	role	role in crew	TEXT	NOT NULL
<b>Flights X Crew members</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>
PK, FK	flight_id	unique id	INTEGER	NOT NULL, FK Flights(flight_id)
PK, FK	member_id	unique id	INTEGER	NOT NULL, FK Crew members(member_id)
<b>Airplanes</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>
PK	airplane_id	unique id	INTEGER	
FK	model		TEXT	NOT NULL, FK Airplane models(model)
	start_of_operation		DATE	NOT NULL
<b>Airplane models</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>

PK	model		TEXT	
	capacity	max number of passengers	INTEGER	NOT NULL, CHECK(> 0)
	flight_range	flight range in km	INTEGER	NOT NULL, CHECK(> 0)
<b>Airports</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>
PK	code_IATA	unique code	TEXT	
	city		TEXT	NOT NULL
	country		TEXT	NOT NULL
<b>Routes</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>
PK	route_id	unique id	INTEGER	
	duration	time in air in minutes	INTEGER	NOT NULL, CHECK(> 0)
FK	departure_IATA	unique code	TEXT	NOT NULL, FK Airports(code_IATA)
FK	arrival_IATA	unique code	TEXT	NOT NULL, FK Airports(code_IATA)
<b>Route time</b>				
<b>PK/FK</b>	<b>Name</b>	<b>Description</b>	<b>type</b>	<b>Constraint</b>
PK	day_of_week		TEXT	CHECK(regex)
PK	departure_time		TEXT	CHECK(regex)
PK	periodicity		TEXT	CHECK(regex)

PK	valid_from		DATE	NOT NULL, CHECK(valid_from < valid_to)
	valid_to		DATE	NOT NULL, CHECK(valid_from < valid_to)