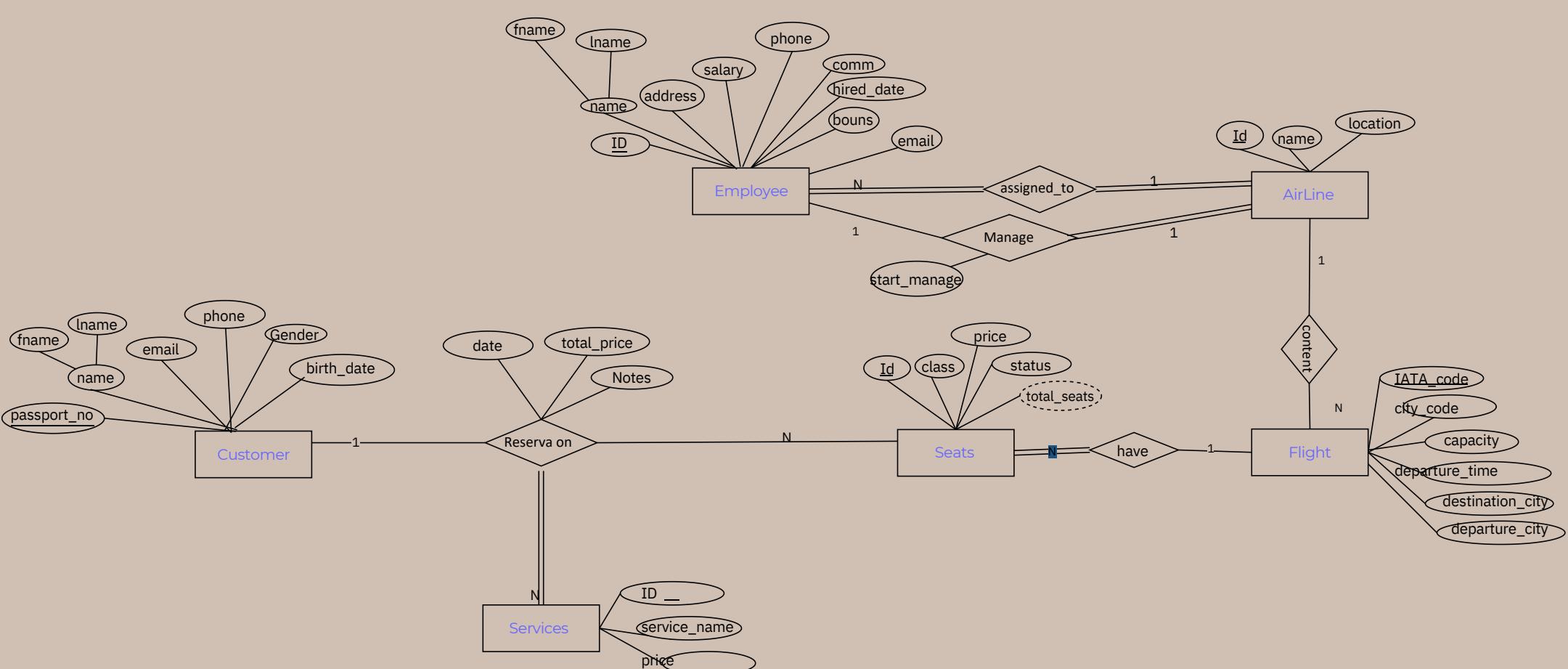
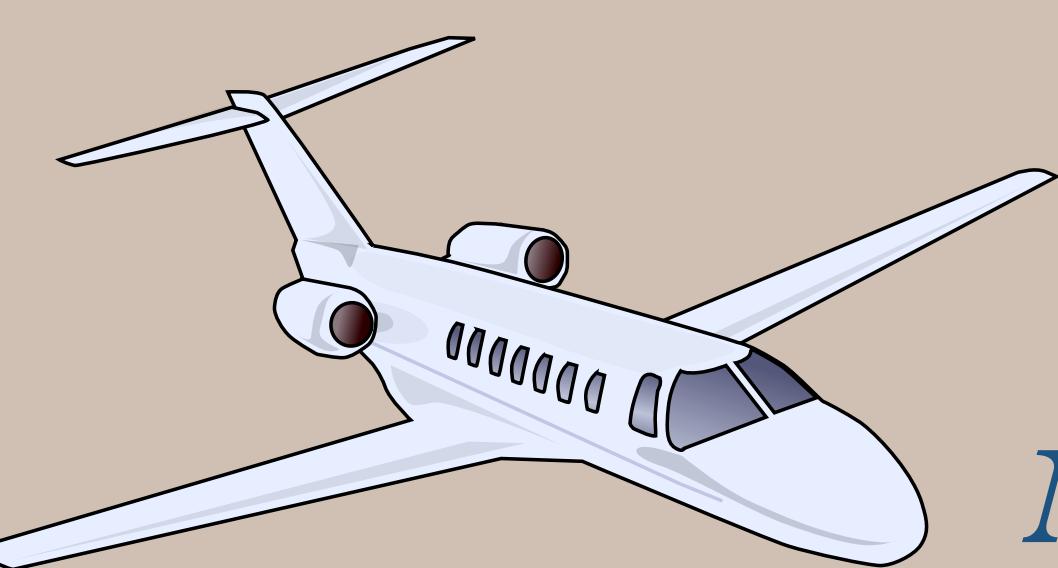


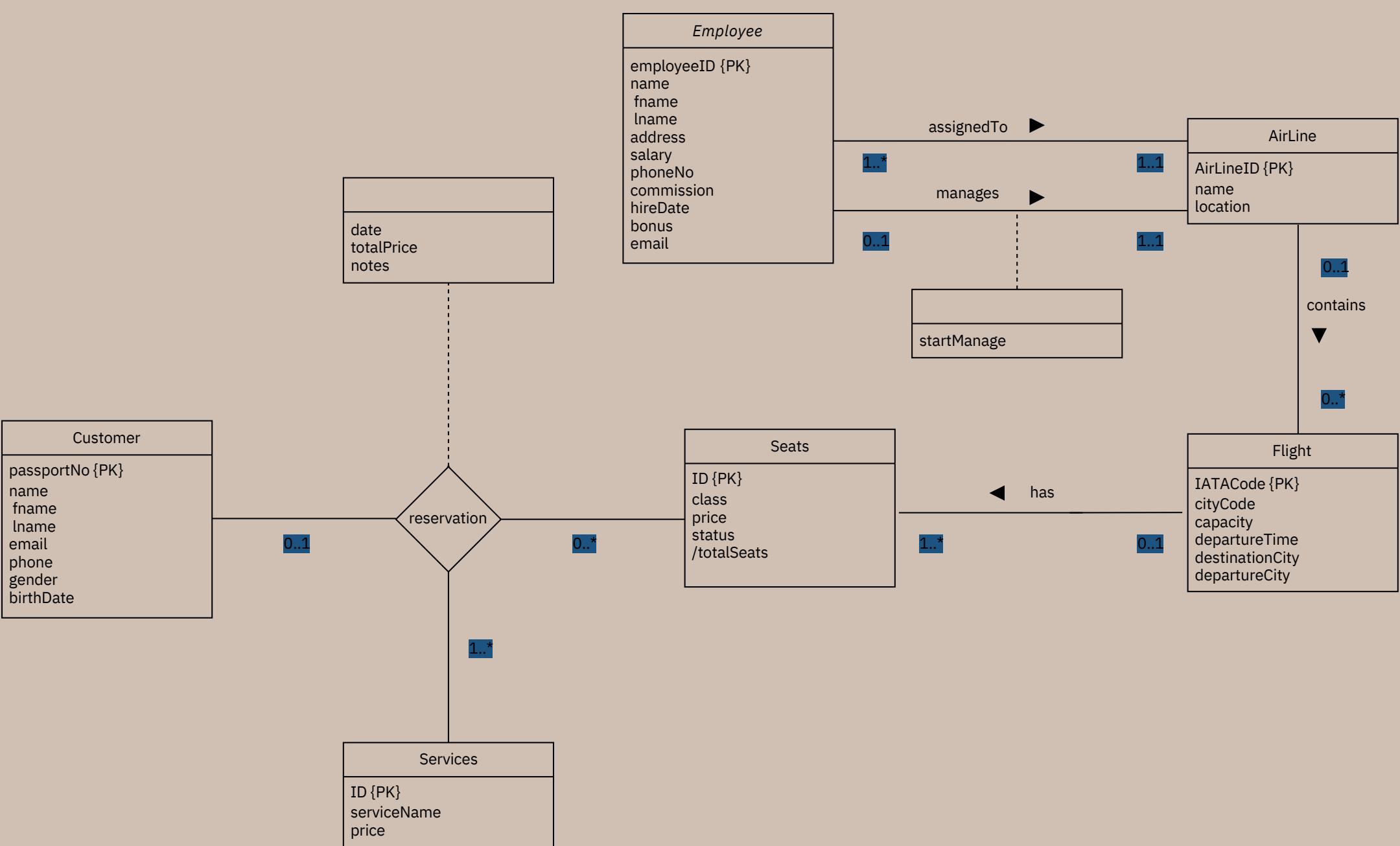
TRAVEL *Agency*



CHEN`S NOTATION



UML

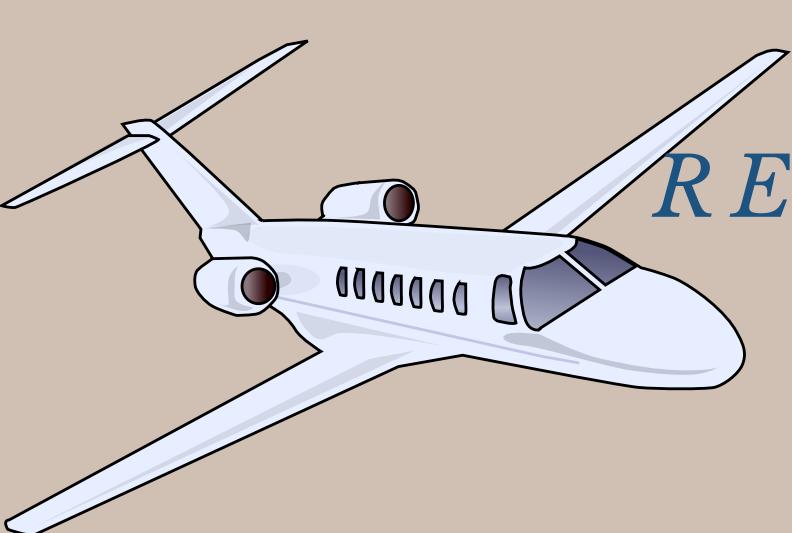




Phase 2

P





RELATION SCHEMA MAPPING

STEP 1: Mapping of Regular Entity Types.

Customer

passport_no	fName	lName	email	phone	Gender	birth_date

Services

ID	service_name	price

Seats

ID	class	price	status

Flight

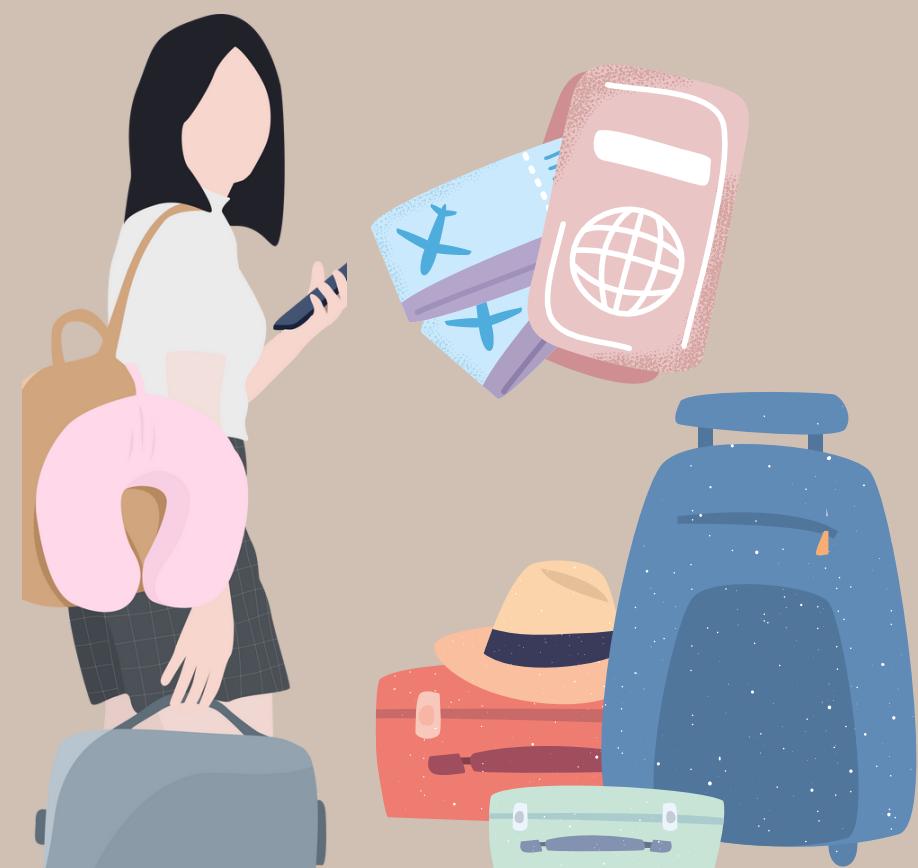
IATA_code	city_code	capacity	departure_time	destination_city	departure_city

AirLine

ID	name	location

Employee

ID	fName	lName	address	salary	phone	comm	hired_date	bouns	email





RELATION SCHEMA MAPPING

STEP 2: Mapping of Weak Entity Types into Relation.

NONE.





RELATION SCHEMA MAPPING

STEP 3: Mapping of Binary 1:1 Relationship Type.

Relationship: Assigned to (Employee & AirLine)

AirLine:

ID_	name	location	ID_EP	start_manage
				Employee (ID)





RELATION SCHEMA MAPPING

STEP 4: Mapping of Binary 1:N Relationship Types .

Relationship: Assigned to (Employee & AirLine)

Employee

ID	fName	lName	address	salary	phone	comm	hired_date	bouns	email	ID_AL
										AirLine(ID)

Relationship: content (Flight & AirLine)

Flight

IATA_code	city_code	capacity	departure_time	destination_city	departure_city	ID_AL
						AirLine(ID)

Relationship: have (Flight & Seats)

Seats

ID	class	price	status	IATA_code
				Flight(IATA_code)

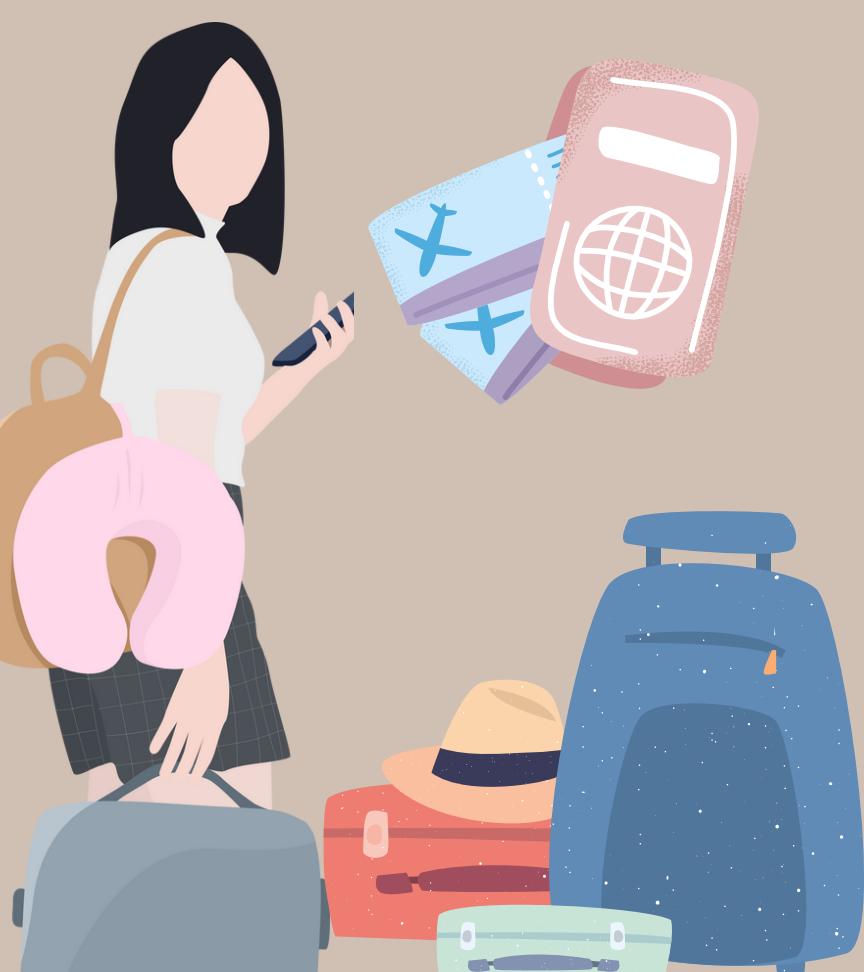


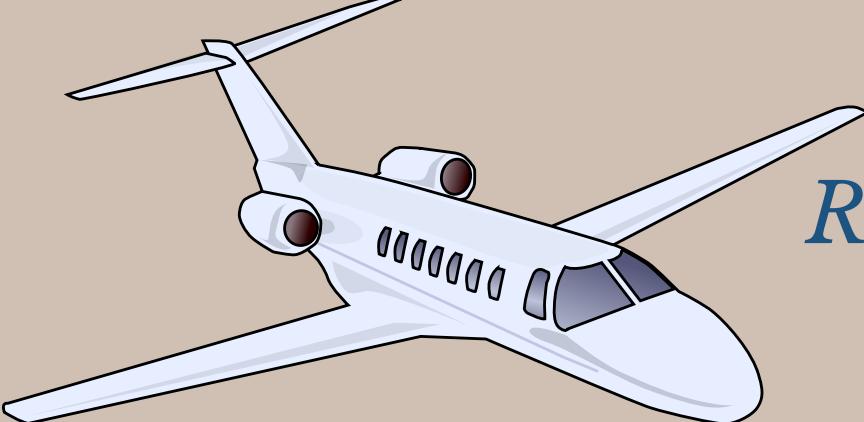


RELATION SCHEMA MAPPING

STEP 5: Mapping of Binary N:N Relationship Types.

NONE.



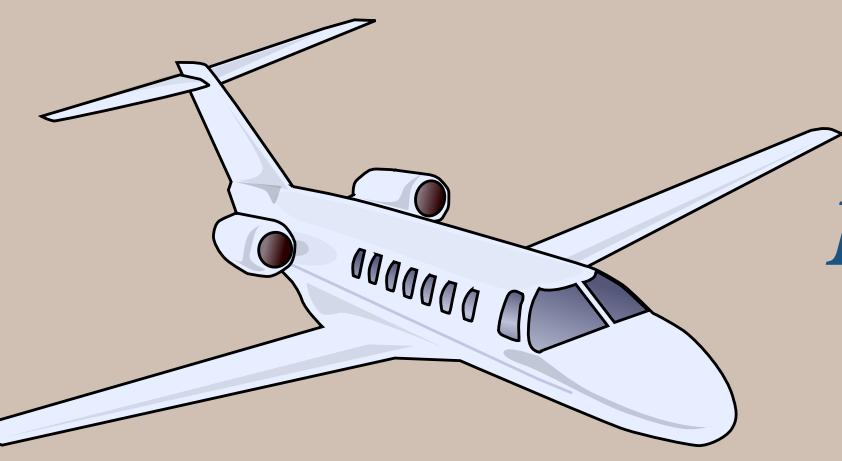


RELATION SCHEMA MAPPING

STEP 6: Mapping of Multivalued attributes .

NONE.





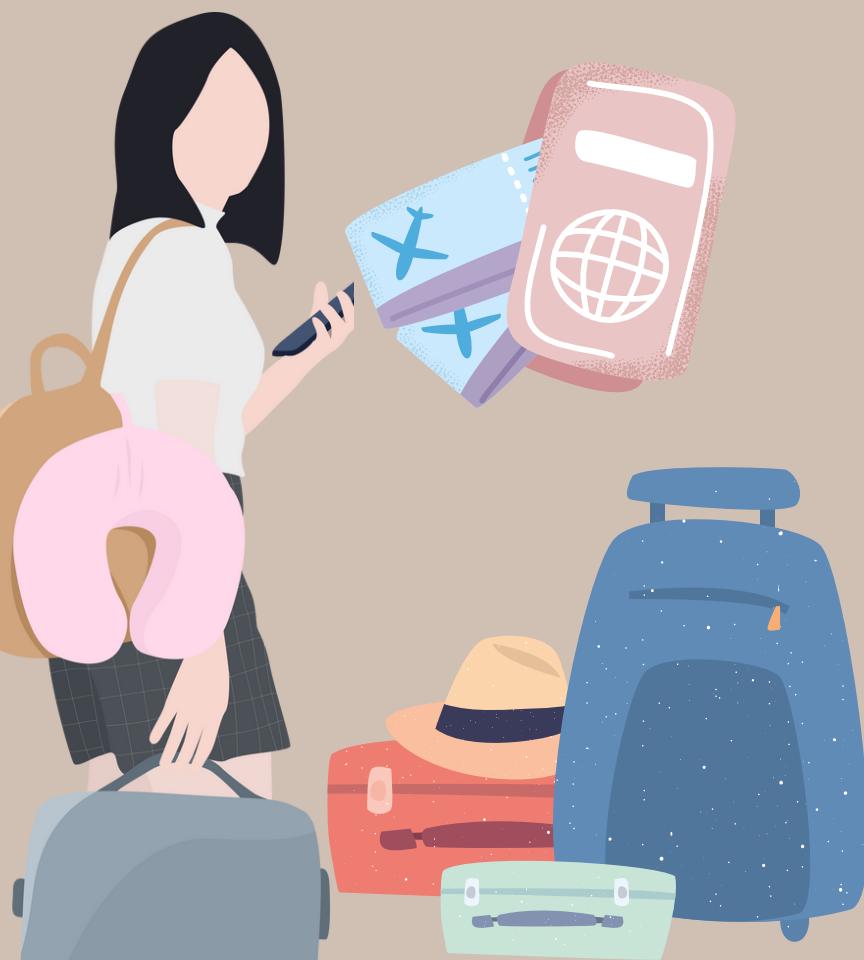
RELATION SCHEMA MAPPING

STEP 7: Mapping of N-ary Relationship Types.

Relationship: Reserva _on(Seats& Services& Customer)

Reserva _on

<u>passport_no</u>	<u>Serv_ID</u>	<u>St_ID</u>	date	total_price	Notes
Customer (passport_no)	Services (ID)	Seats (ID)			



FINAL MAPPING

Customer:

passport_no	fName	IName	email	phone	Gender	birth_date
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Services:

ID	service_name	price
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Seats

ID	class	price	status	IATA_code
----	-------	-------	--------	-----------

Flight

IATA_code	city_code	capacity	departure_time	destination_city	departure_city	ID_AL
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AirLine

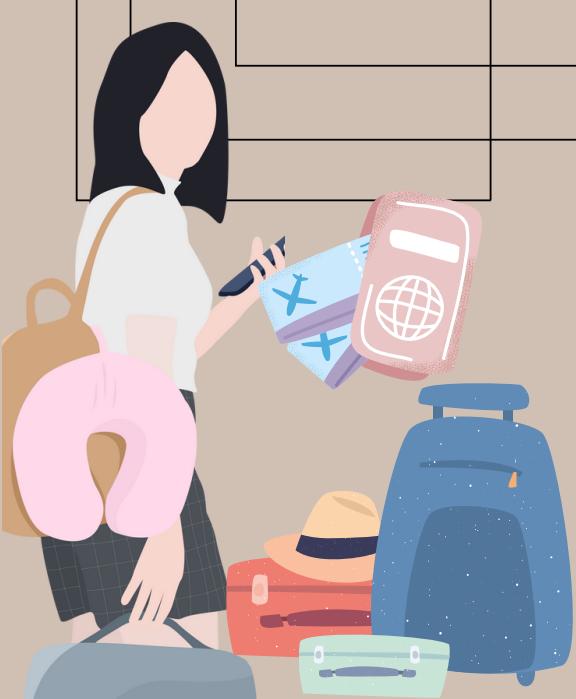
ID	name	location	ID_EP	start_manage
----	------	----------	-------	--------------

Employee

ID	fName	IName	address	salary	phone	comm	hired_date	bouns	email	ID_AL
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Reserva _on

passport_no	Serv_ID	St_ID	date	total_price	Notes
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NORMALIZATION

Customer

passport_no	fName	IName	email	phone	Gender	birth_date
-------------	-------	-------	-------	-------	--------	------------

The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups.

The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.

Services

ID	service_name	service_name
----	--------------	--------------

The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups.

The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.

Seats

ID	class	price	status	IATA_code
----	-------	-------	--------	-----------

The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups.

The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.

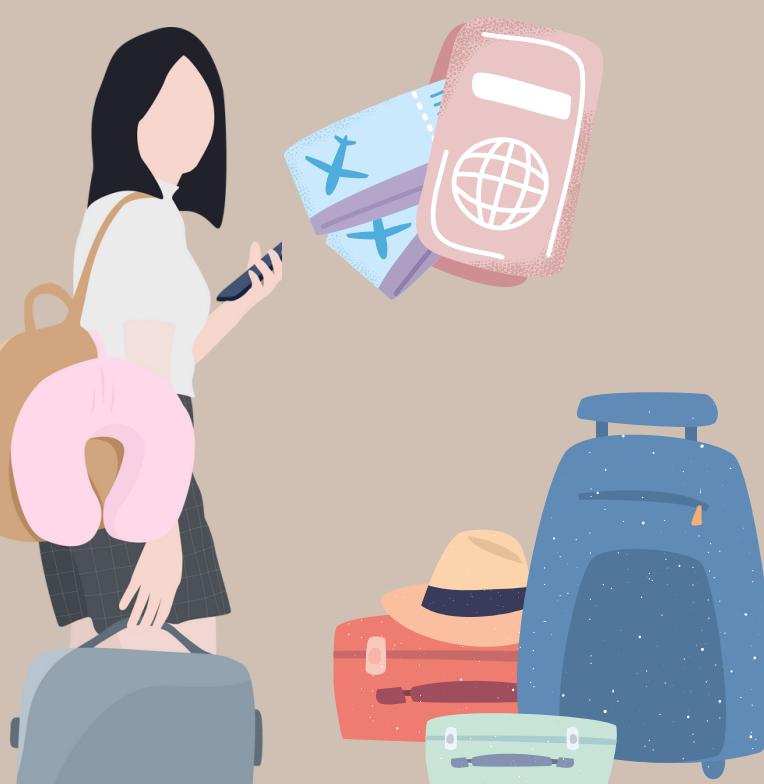
Flight

IATA_code	city_code	capacity	departure_time	destination_city	departure_city	ID_AL
-----------	-----------	----------	----------------	------------------	----------------	-------

The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups.

The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.





NORMALIZATION

AirLine

ID	name	location	ID_EP	start_manage
----	------	----------	-------	--------------

The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups.

The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.

Employe

ID	fName	lName	address	salary	phone	comm	hire_date	bon us	email	ID_AL
----	-------	-------	---------	--------	-------	------	-----------	--------	-------	-------

The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups. The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.

Reserva_on

passport_no	Serv_ID	St_ID	date	total_price	Notes
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The table in the first normal form (1NF): There is No Multivalued Attributes and No Repeating Groups.

The table in the second normal form (2NF): There is No Partial Dependecy.

The table in the third normal form (3NF): There is No Transitive Dependency.

