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1. DATABASE DESCRIPTION, REQUIREMENTS & DATA ITEMS

1.1. Description

This database is about an Airline Company. That airline company founded in 1933. Airline company has more than 80,000 hours of *flights*. The company has announced that over 75.2 *million* passengers carried on 2018 and flies to 306 destinations in 124 countries with its fleet of 336 aircrafts including passenger and cargo planes.

This Airline highly dedicated in customer services. This Airline has many branches around the world but mostly its branches are in Turkey. Employees determines to prove high quality of services for their customers. This Airline is well known for low price of tickets in both domestic and international flights. This Airline company has several discount schemes for children and people that they have need. They give particular importance to customer satisfaction, so their ticket transactions are much higher than the other companies. Importance of the Airway just as food and water are important to the growth and development of our children, so is being able to supply their cells with oxygen. This means we need a clear and wide air pipe to allow the maximum amount of oxygen to enter the lungs.

1.2. Requirements

This part of our project deals with requirements of Airline Company database system, which specifies that what an airline database system should do. We need to store all informations and datas which required for our database system. It helps us to see how the system fits into the existing scheme of things. What the system will do by itself and what it expects other entities to do is clearly delineated.

There are currently 15 Country and we need to store each countries Ct_ID and Ct_Name, so as we known ever Countr has a State in which we have 15 State in our database and we are going to store its State_ID, State_Name and Country. There are 25 Contact Details, for existing 15 State and Also passengers which should be stored; Street, Phone, State, Cn_ID and E_mail in Contact Details, and at the same time. Passengers of our airlines and each Passenger's personal informations should be recorded. Every passenger has Name, Surname, Nationality, Born_Date, Nationality, SSN and Contacts. Passengers can buy many tickets but each ticket belongs to one passenger, in order to record tickets we need to store PNR_No, Price, Route and Discounts of ticket entity.

There currently are 9 types of discounts in our Discount entity for our tickets which we need to store them. On the other hand, we are about to specify our manufacturer and aircraft in which aircrafts made by those manufacturers and we are going to store aircrafts to determine its Ac_ID, Name, Capacity and Mfd_By which manufacture and also to record Manufacturer's Mf_ID, Mf_Date, Name.

Every single ticket belongs to a Flight Schedule in order to follow your flight and we are going to store Flight_Date, Arrival, Departure, Flight_ID and Aircraft. However, every flight has its own team and there are currently 15 Teams and each of them has Emp_ID and T_ID and each team consists of an employee and each employees personal informations should be stored and these employees works on 11 different departments which belongs to an Airport, and we are going to store each airports ICAO and Name.

2. ENTITIES ATTRIBUTES & RESTRICTIONS

2.1 Entity List

1. State
2. Country
3. Contact_Details
4. Passengers
5. Ticket
6. Discounts
7. Flight_Schedule
8. Airport
9. Aircrafts
10. Manufacturer
11. Team
12. Employee
13. Departments

2.2 Entity structures with relevant attributes and data types

State

Field	Data Type	Description	Constraints
State_ID	INT	Unique row id	Primary Key
State_Name	VARCHAR(32)	State name will take place here	NOT NULL
Country	INT	Primary Key From Country Table	Foreign Key

Country

Field	Data Type	Description	Constraints
Ct_ID	INT	Unique row id	Primary Key
Ct_Name	VARCHAR(32)	Country name will take place here	NOT NULL

Contact_Details

Field	Data Type	Description	Constraints
Cn_ID	INT	Unique row id	Primary key
E_mail	VARCHAR(32)	Passengers's contact email	NOT NULL
Phone	INT(16)	Passengers's contact telephone number	NOT NULL
Street	VARCHAR(64)	Street adress of the passengers	NOT NULL
State	INT	Primary key from State table	Foreign key

Passengers

Field	Data Type	Description	Constraints
SSN	INT	Unique Social Security Number	Primary Key
Name	VARCHAR(32)	Passengers's Name	NOT NULL
Surname	VARCHAR(32)	Passengers's Surname	NOT NULL
Nationality	VARCHAR(32)	Passengers's Nationality	NOT NULL
Born_Date	DATE	Passengers's birthday	NOT NULL
Contacts	INT	Primary Key from Contacts table	Foreign key

Ticket

Field	Data Type	Description	Constraints
PNR_No	VARCHAR(6)	Unique Pnr no	Primary Key
Route	INT	Primary key from Flight_Schedule table	Foreign Key
Discounts	INT	Primary key from Discounts table	Foreign Key
Price	Currency	Ticket Price	NOT NULL

Discounts

Field	Data Type	Description	Constraints
Price_ID	INT	Unique row id	Primary Key
Title	VARCHAR(32)	Label to know discount	NOT NULL
Amount	INT	Discount amount in %	NOT NULL
Description	Varchar(255)	Describe cause of discount	NOT NULL

Flight_Schedule

Field	Data Type	Description	Constraints
Ft_ID	VARCHAR(11)	Unique row id	Primary Key
Flight_Date	DATE	Date of Flight	NOT NULL
Arrival	INT	Primary key from Airports table	Foreign Key
Departure	INT	Primary key from Airports table	Foreign Key
Aircraft	INT	Primary key from Aircrafts table	Foreign Key

Airport

Field	Data Type	Description	Constraints
ICAO	VARCHAR(11)	Unique ICAO code of airport	Primary Key
NAME	VARCHAR(32)	Name of airport	NOT NULL

Aircrafts

Field	Data Type	Description	Constraints
Ac_ID	INT	Unique row id	Primary Key
Name	VARCHAR(32)	Aircraft name	NOT NULL
Capacity	INT	Aircraft capacity	NOT NULL
Mfd_By	INT	Primary key from Manufacturer table	Foreign key

Manufacturer

Field	Data Type	Description	Constraints
Mf_ID	INT	Unique row id	Primary Key
Name	VARCHAR(32)	Manufacturer name	NOT NULL
Mf_Date	DATE	Manufactured date	NOT NULL

Team

Field	Data Type	Description	Constraints
T_ID	INT	Unique row id	Primary Key
Emp_ID	INT	Primary Key from employee table	Foreign Key

Employee

Field	Data Type	Description	Constraints
SSN	INT	Unique SSN number	Primary Key
Name	VARCHAR(32)	Employee's name	NOT NULL
Surname	VARCHAR(32)	Employee's surname	NOT NULL
Sex	VARCHAR(6)	Employee's sex	NOT NULL
Age	INT	Employee's age	NOT NULL
Dept_ID	INT	Primary key from Departments table	Foreign key

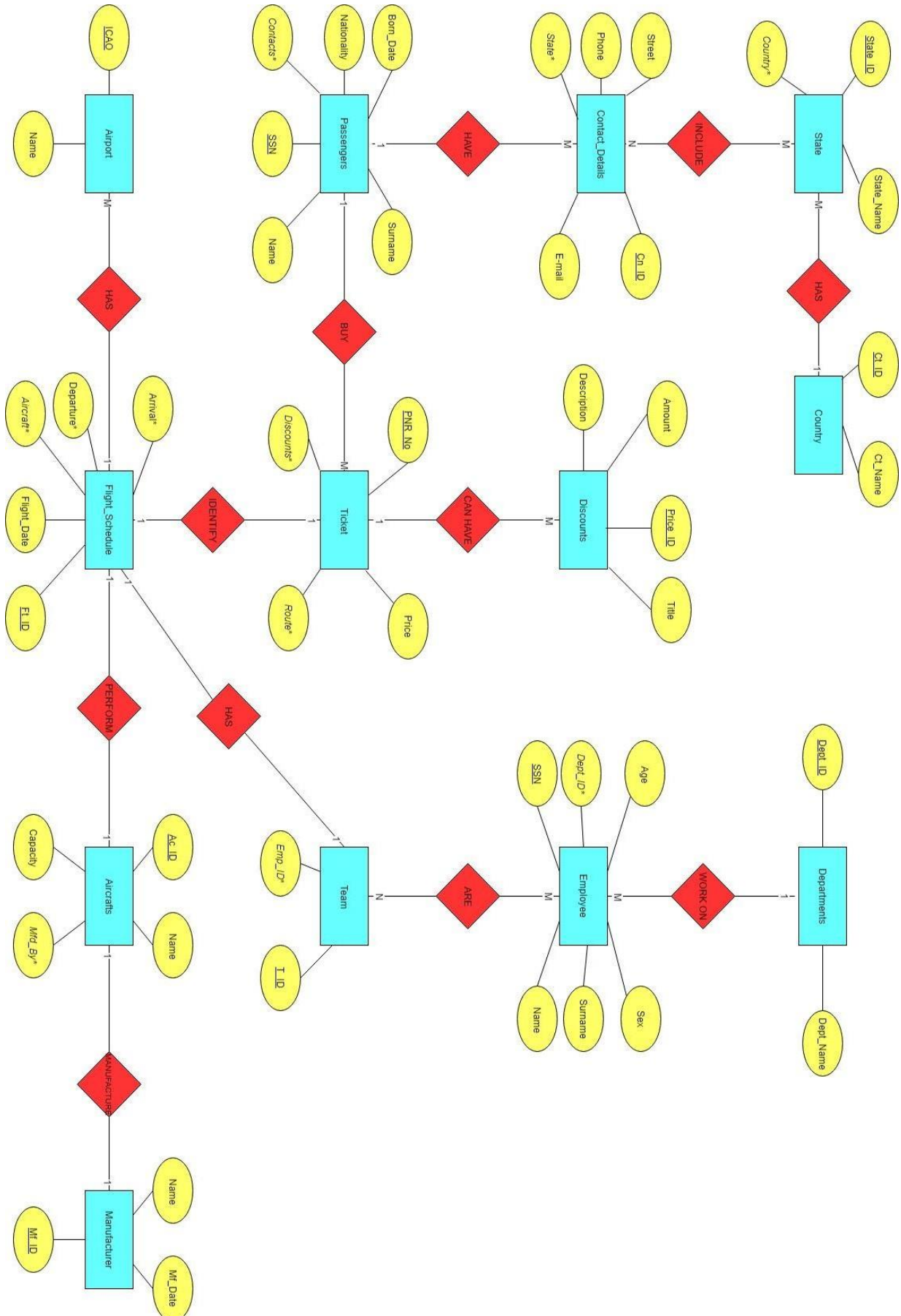
Departments

Field	Data Type	Description	Constraints
Dept_ID	INT	Unique row id	Primary Key
Dept_Name	VARCHAR(32)	Department's name	NOT NULL

2.3 Primary keys and foreign keys

SN	Table	Primary Key	Foreign keys	
			Column	References
1	State	State_ID	Country	Country.Ct_ID
2	Country	Ct_ID	-	-
3	Contact_Details	Cn_ID	State	State.State_ID
4	Passengers	SSN	Contacts	Contacts.Cn_ID
5	Ticket	PNR_No	Route	Flight_Schedule.Ft_ID
			Discounts	Discounts.Ch_ID
6	Discounts	Price_ID	-	-
7	Flight_Schedule	Ft_ID	Arrival	Airports.ICAO
			Departure	Airports.ICAO
			Aircraft	Aircrafts.Ac_ID
8	Airport	ICAO	-	-
9	Aircrafts	Ac_ID	Mfd_By	Manufacturer.Mf_ID
10	Manufacturer	Mf_ID	-	-
11	Team	T_ID	Emp_ID	Employee.SSN
12	Employee	SSN	Dept_ID	Departments.Dept_ID
13	Departments	Dept_ID	-	-

3.ENTITY RELATIONSHIP MODEL & DIAGRAM



From top to bottom;

A)

-Many states can match with one country.A country consists of many states.(M-1)

-And also many states may include many contact details.(M-M)

-Many contact details must be match with only one passenger.(M-1)

From this point to the left;

B)

-A passenger can buy many tickets.On the other hand,a particular ticket must be sold to a particular passenger.(1-M)

From this point to up and down ;

C)

-Also a ticket can have many discounts.(1-M)

-A ticket can be identified by only one flight Schedule.(1-1)

From “*Flight_Schedule*” entity to its left and right directions;

D)

-Flight schedules can have many airport .So, a planned flight can be landed to airport whatever that wanted .This entity relation describes this situation.(1-M)

-Flights performed by aircrafts.We considered that an aircraft can show us only one flight schedule.(1-1)

-Flight Schedule must have a team that will make the flight. (1-1)

-Finally,an aircraft manufactured by one manufacturer firm.(1-1)

From bottom to top ;

A)

-A team consists of employees.So,we can say that many employees forms different teams.(N-M)

-Many employees can work on only certain,particular department. (1-M)

4. DATABASE

4.1. Creating the Database

```
CREATE DATABASE airline_dbms;
```

CREATE DATABASE AIRLINE

4.2. Creating the Tables

We need 13 tables for this database: Aircrafts, Airports, Contact_Details , Country , Department , Discounts , Employee , Flight_Schedule , Manufacturer , Passengers , State , Team , Ticket

4.2.1. Creating the Table AIRCRAFTS

```
CREATE TABLE `aircrafts` (  
  `Ac_ID` int(11) NOT NULL,  
  `Name` varchar(32) NOT NULL  
  `Capacity` int(11) NOT NULL,  
  `Mfd_By` int(100) NOT NULL,  
)
```



#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Ac_ID	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Name	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	Capacity	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
4	Mfd_By	int(100)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

4.2.2. Creating the Table AIRPORT

```
CREATE TABLE `airport` (  
  `ICAO` varchar(11) NOT NULL  
  `Name` varchar(32) NOT NULL  
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: airport

GözetYapıSQLAraEkleDışa aktarİçe aktarYetkilerİşlemlerTetikleyiciler

Tablo yapısıİlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
<input type="checkbox"/>	1	ICAO	varchar(11)	latin5_turkish_ci	Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
<input type="checkbox"/>	2	Name	varchar(32)	latin5_turkish_ci	Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

↑

☐ Tümünü işaretle

Seçili: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.3. Creating the Table CONTACT DETAILS

```
CREATE TABLE `contact_details` (
  `Street` varchar(32) NOT NULL
  `Phone` int(32) NOT NULL,
  `Cn_ID` int(32) NOT NULL,
  `E_mail` varchar(32) NOT NULL
  `State` int(11) NOT NULL,
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: contact_details

Gözet

Yapı

SQL

Ara

Ekle

Dışa aktar

İçe aktar

Yetkiler

İşlemler

Tetikleyiciler

Tablo yapısı

İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Street	varchar(32)	latin5_turkish_ci	Hayır	Yok				Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Phone	int(32)		Hayır	Yok				Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	Cn_ID	int(32)		Hayır	Yok				Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
4	E_mail	varchar(32)	latin5_turkish_ci	Hayır	Yok				Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
5	State	int(11)		Hayır	Yok				Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

☐ Tümünü işaretle

Seçilileri: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.4. Creating the Table COUNTRY

```
CREATE TABLE `country` (
  `Ct_ID` int(32) NOT NULL,
  `Ct_Name` varchar(32) NOT NULL
)
```

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Ct_ID	int(32)			Hayır	Yok			Değiştir Kaldır Daha fazla
2	Ct_Name	varchar(32) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Daha fazla

4.2.5. Creating the Table DEPARTMENT

```
CREATE TABLE `department` (
  `Dept_ID` int(32) NOT NULL,
  `Dept_Name` varchar(32) NOT NULL
)
```

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Dept_ID	int(32)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Dept_Name	varchar(32) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

4.2.6. Creating the Table DISCOUNTS

```
CREATE TABLE `discounts` (
  `Price_ID` int(32) NOT NULL,
  `Amount` int(32) NOT NULL,
  `Description` varchar(32) NOT NULL
  `Title` varchar(32) NOT NULL
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: discounts

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Price_ID	int(11)			Hayır	Yok		AUTO_INCREMENT	Değiştir Kaldır Birincil Benzersiz Index Uzaysal Daha fazla
2	Amount	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Daha fazla
3	Description	varchar(32) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Daha fazla
4	Title	varchar(32) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Daha fazla

Tümünü işaretle Seçimleri: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.7. Creating the Table EMPLOYEE

```
CREATE TABLE `employee` (
  `SSN` int(11) NOT NULL,
  `Age` int(11) NOT NULL,
  `Sex` varchar(11) NOT NULL
  `Name` varchar(11) NOT NULL
  `Surname` varchar(11) NOT NULL
  `Dept_ID` int(11) NOT NULL,
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: employee

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	SSN	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Age	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	Sex	varchar(11) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
4	Name	varchar(11) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
5	Surname	varchar(11) latin5_turkish_ci			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
6	Dept_ID	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

Tümünü işaretle Seçimleri: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.8. Creating the Table FLIGHT SCHEDULE

```
CREATE TABLE `flight_schedule` (
  `Arrival` varchar(32) NOT NULL
  `Departure` varchar(32) NOT NULL
  `Flight_Date` date NOT NULL
  `Ft_ID` varchar(11) NOT NULL
  `Aircraft` int(11) NOT NULL,
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: flight_schedule

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Arrival	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Departure	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	Flight_Date	date			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
4	Ft_ID	varchar(11)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
5	Aircraft	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

Tümünü işaretle Seçimleri Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.9. Creating the Table MANUFACTURER

```
CREATE TABLE `manufacturer` (
  `Name` varchar(32) NOT NULL,
  `Mf_Date` int(11) NOT NULL,
  `Mf_ID` int(11) NOT NULL,
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: manufacturer

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Name	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Mf_Date	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	Mf_ID	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

Tümünü işaretle Seçimleri Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.10. Creating the Table PASSENGERS

```
CREATE TABLE `passengers` (
  `Born_Date` int(11) NOT NULL,
  `Nationality` varchar(32) NOT NULL,
  `SSN` int(11) NOT NULL,
  `Name` varchar(32) NOT NULL,
  `Surname` varchar(32) NOT NULL,
  `Contacts` int(11) NOT NULL,
)
```


Sunucu: localhost » Veritabanı: flight_database » Tablo: passengers

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	Born_Date	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Nationality	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	SSN	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
4	Name	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
5	Surname	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
6	Contacts	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

Tümünü işaretle Seçimleri: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.11. Creating the Table TEAM

```
CREATE TABLE `team` (
  `T_ID` int(32) NOT NULL,
  `Emp_ID` int(11) NOT NULL,
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: team

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	T_ID	int(32)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Emp_ID	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

Tümünü işaretle Seçimleri: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.12. Creating the Table TICKET

```
CREATE TABLE `ticket` (
  `PNR_No` varchar(32) NOT NULL,
  `Price` int(11) NOT NULL,
  `Route` varchar(11) NOT NULL,
  `Discounts` int(11) NOT NULL,
)
```

Sunucu: localhost » Veritabanı: flight_database » Tablo: ticket

Gözet Yapı SQL Ara Ekle Dışa aktar İçe aktar Yetkiler İşlemler Tetikleyiciler

Tablo yapısı İlişki görünümü

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
1	PNR_No	varchar(32)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
2	Price	int(11)			Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
3	Route	varchar(11)	latin5_turkish_ci		Hayır	Yok			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler
4	Discounts	int(11)			Evet	NULL			Değiştir Kaldır Birincil Benzersiz Index Uzaysal Tam metin Belirgin değerler

Tümünü işaretle Seçimleri: Gözet Değiştir Kaldır Birincil Benzersiz Index

4.2.13. Creating the Table STATE

```
CREATE TABLE `state` (  
  `State_ID` int(32) NOT NULL,  
  `State_Name` varchar(32) NOT NULL,  
  `Country` int(11) NOT NULL,  
)
```

#	Adı	Türü	Karşılaştırma	Öznitelikler	Boş	Varsayılan	Açıklamalar	Ekstra	Eylem
<input type="checkbox"/>	1	State_ID	int(32)		Hayır	Yok			Değiştir Kaldır Daha fazla
<input type="checkbox"/>	2	State_Name	varchar(32)	latin5_turkish_ci	Hayır	Yok			Değiştir Kaldır Daha fazla
<input type="checkbox"/>	3	Country	int(11)		Hayır	Yok			Değiştir Kaldır Daha fazla

Created all the tables:

Sunucu: 127.0.0.1 » Veritabanı: airline_dbms									
Yapı SQL Ara Sorgu Dışa aktar İçe aktar İşlemler Yetkiler Yordamlar Olaylar Daha fazla									
Süzgeçler									
İçerdiği kelime: <input type="text"/>									
Tablo	Eylem	Satır	Türü	Karşılaştırma	Boyut	Ek Yük			
<input type="checkbox"/> aircrafts	Gözet Yapı Ara Ekle Boşalt Kaldır	12	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> airport	Gözet Yapı Ara Ekle Boşalt Kaldır	19	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> contact_details	Gözet Yapı Ara Ekle Boşalt Kaldır	7	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> country	Gözet Yapı Ara Ekle Boşalt Kaldır	11	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> department	Gözet Yapı Ara Ekle Boşalt Kaldır	11	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> discounts	Gözet Yapı Ara Ekle Boşalt Kaldır	9	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> employee	Gözet Yapı Ara Ekle Boşalt Kaldır	7	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> flight_schedule	Gözet Yapı Ara Ekle Boşalt Kaldır	6	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> manufacturer	Gözet Yapı Ara Ekle Boşalt Kaldır	11	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> passengers	Gözet Yapı Ara Ekle Boşalt Kaldır	15	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> state	Gözet Yapı Ara Ekle Boşalt Kaldır	11	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> team	Gözet Yapı Ara Ekle Boşalt Kaldır	15	InnoDB	latin5_turkish_ci	16 KiB	-			
<input type="checkbox"/> ticket	Gözet Yapı Ara Ekle Boşalt Kaldır	11	InnoDB	latin5_turkish_ci	16 KiB	-			
13 tablo	Toplam	145	InnoDB	latin1_swedish_ci	208 KiB	0 B			

4.3.Adjusting Necessary Relationships,Primary Keys,and Foreign Keys;

4.3.1 Primary Keys,and Foreign Keys for the Aircrafts;

-Ac_ID is the primary key in the Aircrafts table.

```
ALTER TABLE `aircrafts`
```

```
ADD PRIMARY KEY (`Ac_ID`);
```

-Mf_ID is the foreign key in the Aircrafts table.

```
ALTER TABLE `aircrafts`
```

```
ADD CONSTRAINT `aircrafts_rel`
```

```
FOREIGN KEY(`Mfd_By`) REFERENCES `manufacturer` (`Mf_ID`)
```



4.3.2 Primary Keys,and Foreign Keys in the Airport Table

-ICAO is the Primary key in the Airport Table.

```
ALTER TABLE `airport`
```

```
ADD PRIMARY KEY (`ICAO`);
```

-This table do not have Foreign Key.

4.3.3 Primary Keys,and Foreign Keys in the Contact_Details

-Cn_ID is the Primary Key in the Contact_Details.

```
ALTER TABLE `contact_details`
```

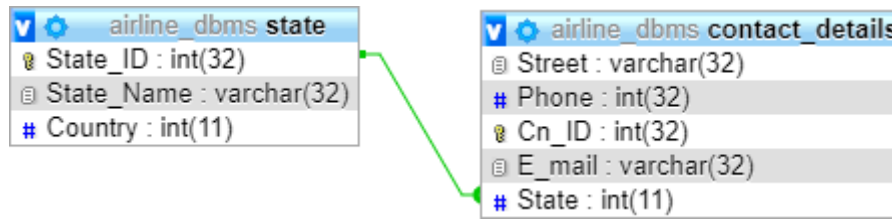
```
ADD PRIMARY KEY (`Cn_ID`);
```

-State is Foreign Key that refers to State_ID from State table in the Contact_Details.

```
ALTER TABLE `contact_details`
```

```
ADD CONSTRAINT `contact_details_rel`
```

```
FOREIGN KEY(`State`) REFERENCES `state` (`State_ID`);
```



4.3.4 Primary Key, and Foreign Key in the Country Table

-Ct_ID is the Primary Key in the Country Table.

```
ALTER TABLE `country`
```

```
ADD PRIMARY KEY (`Ct_ID`);
```

-This table do not have foreign key.

4.3.5 Primary Key, and Foreign Key in the Discounts;

-Price_ID is the Primary Key in the Discounts table.

```
ALTER TABLE `discounts`
```

```
ADD PRIMARY KEY (`Price_ID`);
```

-This table do not have Foreign Key.

4.3.6 Primary Key, and Foreign Key in the Department;

-Dept_ID is the Primary Key in the Department Table.

```
ALTER TABLE `department`
```

```
ADD PRIMARY KEY (`Dept_ID`);
```

-This table do not have Foreign Key.

4.3.7 Primary Key, and Foreign Key in the Employee;

-SSN is the Primary Key in the Employee.

```
ALTER TABLE `employee`
```

```
ADD PRIMARY KEY (`SSN`);
```

-Dept_ID is the Foreign Key in the Employee Table.

```
ALTER TABLE `employee`
```

```
ADD CONSTRAINT `employee_rel`
```

```
FOREIGN KEY(`Dept_ID`) REFERENCES `department` (`Dept_ID`);
```

4.3.8 Primary Key, and Foreign Key in the Team;

-T_ID is the Primary Key in the Team Table.

```
ALTER TABLE `team`
```

```
ADD PRIMARY KEY (`T_ID`);
```

-Emp_ID is the Foreign Key in the Team Table.

```
ALTER TABLE `team`
```

```
ADD CONSTRAINT `team_rel`
```

```
FOREIGN KEY(`Emp_ID`) REFERENCES `employee` (`Emp_ID`);
```



4.3.9 Primary Key, and Foreign Key in the Flight_Schedule

-Ft_ID is the Primary Key in the Flight_Schedule.

```
ALTER TABLE `flight_schedule`
```

```
ADD PRIMARY KEY (`Ft_ID`);
```

-Arrival and Departure is the Foreign Key that refer to
ICAO from Airport Table in the Flight_Schedule Table.

-Aircraft is the Foreign Key in the Flight_Schedule.

```
ALTER TABLE `flight_schedule`
```

```
ADD CONSTRAINT `flight_schedule_rel_1`
```

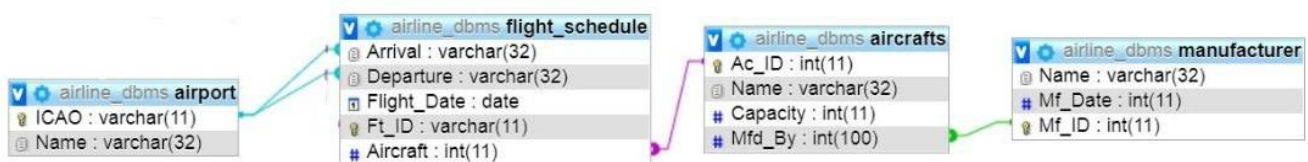
```
FOREIGN KEY(`Arrival`) REFERENCES `airport` (`ICAO`),
```

```
ADD CONSTRAINT `flight_schedule_rel_2`
```

```
FOREIGN KEY(`Departure`) REFERENCES `airport` (`ICAO`),
```

```
ADD CONSTRAINT `flight_schedule_rel_3`
```

```
FOREIGN KEY(`Aircraft`) REFERENCES `aircrafts` (`Ac_ID`);
```



4.3.10 Primary Key, and Foreign Key in the Ticket;

-PNR_No is the Primary Key in the Ticket Table.

```
ALTER TABLE `ticket`
```

```
ADD PRIMARY KEY (`PNR_No`);
```

-Discounts and Route are the Foreign Keys in the Ticket.

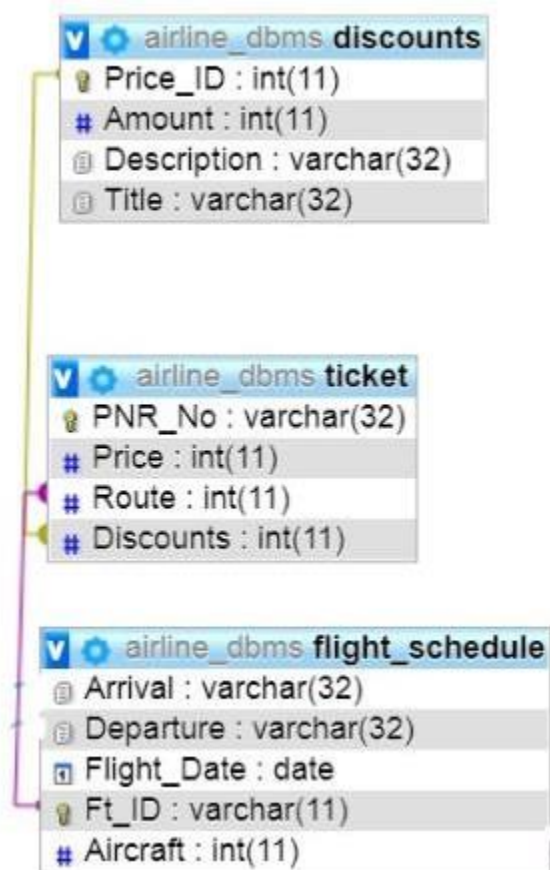
```
ALTER TABLE `ticket`
```

```
ADD CONSTRAINT `ticket_rel_1`
```

```
FOREIGN KEY(`Discounts`) REFERENCES `discounts` (`Price_ID`),
```

```
ADD CONSTRAINT `ticket_rel_2`
```

```
FOREIGN KEY(`Route`) REFERENCES `flight_schedule` (`Ft_ID`);
```



4.3.11 Primary Key, and Foreign Key in the State;

-State_ID is the Primary Key in the State table.

```
ALTER TABLE `state`
```

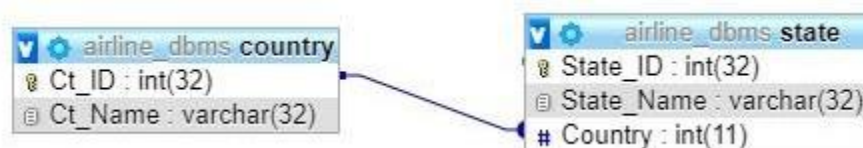
```
ADD PRIMARY KEY (`State_ID`);
```

-Country is the Foreign Key in the State Table.

```
ALTER TABLE `state`
```

```
ADD CONSTRAINT `state_rel`
```

```
FOREIGN KEY(`Country`) REFERENCES `country` (`Ct_ID`);
```



4.3.12 Primary Key, and Foreign Key in the Manufacturer;

-Mf_ID is the Primary Key.

```
ALTER TABLE `manufacturer`
```

```
ADD PRIMARY KEY (`Mf_ID`);
```

-This table do not have Foreign Key.

4.3.13 Primary Key, and Foreign Key in the Passenger;

-SSN is the Primary Key in the Passenger Table.

```
ALTER TABLE `passenger`
```

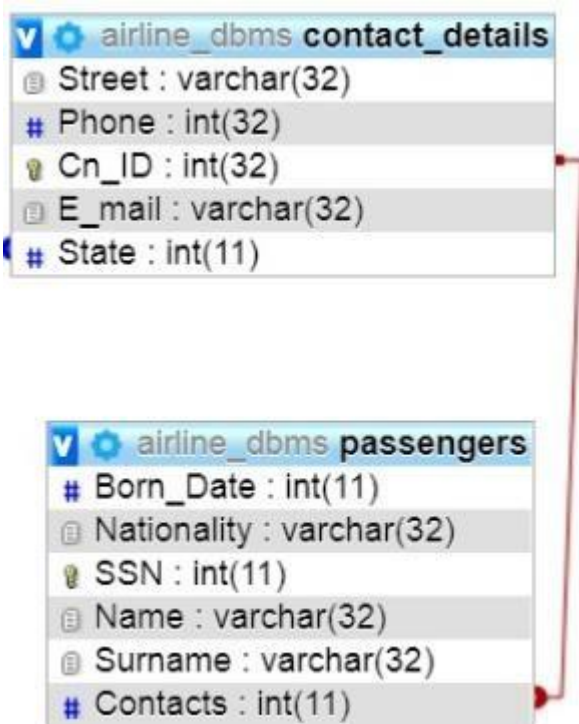
```
ADD PRIMARY KEY (`SSN`);
```

-Contacts is the Foreign Key in the Passenger Table.

```
ALTER TABLE `passenger`
```

```
ADD CONSTRAINT `passenger_rel`
```

```
FOREIGN KEY(`Contacts`) REFERENCES `contact_details` (`Cn_ID`);
```



4.4. Populating the Tables

4.4.1. Populating the Table AIRCRAFTS

```
INSERT INTO `aircrafts` (`Ac_ID`, `Name`, `Capacity`, `Mfd_By`)
VALUES
(0, 'A340-300', '350', '2'),
(1, 'A330-300', '300', '37'),
(2, 'A330-200', '250', '18'),
(3, 'A321-200', '180', '68'),
(4, 'A320-200', '159', '18'),
(5, 'A319-132/100', '132', '6'),
(6, 'B777-300 ER', '400', '33'),
(7, 'B737-800', '165', '99'),
(8, 'B737-700', '124', '1'),
(9, 'B737-900 ER', '169', '15'),
(10, 'A321 NEO', '182', '4'),
(11, 'B737-8 MAX', '151', '12'),
```


+ Seçenekler				▼	Ac_ID	Name	Capacity	Mfd_By		
<input type="checkbox"/>		Düzenle		Kopyala		Sil	0	A340-300	350	2
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	A330-300	300	37
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	A330-200	250	18
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	A321-200	180	68
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	A320-200	159	18
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	A319-132/100	132	6
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	B777-300 ER	400	33
<input type="checkbox"/>		Düzenle		Kopyala		Sil	7	B737-800	165	99
<input type="checkbox"/>		Düzenle		Kopyala		Sil	8	B737-700	124	1
<input type="checkbox"/>		Düzenle		Kopyala		Sil	9	B737-900 ER	169	15
<input type="checkbox"/>		Düzenle		Kopyala		Sil	10	A321 NEO	182	4
<input type="checkbox"/>		Düzenle		Kopyala		Sil	11	B737-8 MAX	151	12
	<input type="checkbox"/>	Tümünü isaretle	Seçilileri:			Düzenle		Kopyala		Sil

4.4.2. Populating the Table AIRPORT

```
INSERT INTO `airport` (`ICAO`, `name`)
```

```
VALUES
```

```
(EDDF, 'Frankfurt Airport'),
```

```
(EGLL, 'London Heathrow Airport'),
```

```
(KVJI, 'Virginia Highlands'),
```

```
(LEBL, 'Barcelona El Prat Airport'),
```

```
(LEVD, 'Spain-Valladolid'),
```

```
(LFPG, 'Pris-Charles de Gaulle'),
```

```
(LMML, 'Malta International'),
```

```
(LTAC, 'Ankara-Esenboga'),
```

```
(LTAG, 'Adana-Incirlık'),
```

```
(LTAI, 'Antalya'),
```

```
(LTAN, 'Konya'),
```

```
(LTBA, 'Istanbul-Ataturk'),
```

```
(LTBJ, 'Izmir-Menderes'),
```

(ZBAA, ‘Beijing International’),

+ Seçenekler

<

4.4.3. Populating the Table CONTACT_DETAILS

```
INSERT INTO `contact_details` (`Street`, `Phone`, `Cn ID`, `E-mail`,`State`)
```

VALUES

(‘Kuyuyazısı Street’, ‘1543261745’, ‘1121458981’, alternativered@gmail.com),




































































('Greenwich Street', '478547854', '1121458982', 'sbcgreenwichman@gmail.com'),

('Oxford Street', '748746310', '1121458983', sbcthegreatestone@gmail.com),

('Trafalgar Square', '414002500', '1121458984', 'reddeptiongol@outlook.com'),('Red Square', '472130021', '1121458985', ferdonaba@gmail.com),

('Dublin Manolya Street', '12354367', '1121458986', 'SeRseRiCocuq@hotmail.com'),

('Cincin Street', '544345432', '1121458987', '[EsRaRKe\\$@hotmail.com](mailto:EsRaRKe$@hotmail.com)'),
('BağlarBaşı Street', '543212345', '1121458988', 'KaLBimeGömeriM@gmail.com'),
('Ertugrul Gazi Street', '266662215', '1121458989', 'melhdmr@hotmail.com'),
('Kalbimin Mezarı Street', '544433223', '1233168460', 'SeRseRiBeLa@hotmail.com'),
('Ver Bana Kalbini Street', '65443454', '1233168461', 'therewastotallydifferent@gmail.com'),
('Blackwater Street', '150304110', '1233168465', 'emily.green@hotmail.com'),
('Green Packer Street', '546663332', '1234453546', 'jackrosso@hotmail.com'),
('Dear Wholter Street', '44322557', '1366544890', 'yestree@hotmail.com'),
('Earth Deep Street', '76587696', '1366544891', 'sbcgreenwich@gmail.com'),
('Fear Deep Street', '45608979', '1366544892', '[EsRaRKe\\$h16@hotmail.com](mailto:EsRaRKe$h16@hotmail.com)'),
('Darkhallow Street', '223555621', '1366544898', 'ronstonehaeat@hotmail.com'),
('Old Moscov Street', '744564865', '1411123546', 'victoria.straskova@hotmail.com'),
('Altınpark Street', '54436765', '1522230560', 'gearbestthe@gmail.com'),
('Sea Fight Street', '78955456', '1522230561', 'skateboard@gmail.com'),
('Red Three Street', '52833690', '1522230562', 'searcherman@gmail.com'),
('Techno Street', '12547896', '1522230563', 'medboy@gmail.com'),
('Drug Street', '1452322', '1522230564', 'drugboy47@gmail.com'),
('Cankaya Street', '544868426', '1522230568', 'aliermisler@hotmail.com'),
('Roonwell Street', '654563321', '1523548956', 'marrywater@hotmail.com');

+ Seçenekler							
			Street	Phone	Cn_ID	E_mail	State
<input type="checkbox"/>			 Kuyuyazısı Street	1543261745	1121458981	alternativered@gmail.com	16
<input type="checkbox"/>			 Greenwich Street	478547854	1121458982	sbogreenwichman@gmail.com	44
<input type="checkbox"/>			 Oxford Street	748746310	1121458983	sbthegreatestone@gmail.com	44
<input type="checkbox"/>			 Trafalgar Square	414002500	1121458984	reddeptiongol@outlook.com	44
<input type="checkbox"/>			 Red Square	472130021	1121458985	ferdonaba@gmail.com	7
<input type="checkbox"/>			 Dublin Manolya Street	12354367	1121458986	SeRseRiCocuq@hotmail.com	90
<input type="checkbox"/>			 Cincin Street	544345432	1121458987	EsRaRKe\$@hotmail.com	90
<input type="checkbox"/>			 BağlarBaşı Street	543212345	1121458988	KaLBimeGömeriM@gmail.com	16
<input type="checkbox"/>			 Ertugrul Gazi Street	266662215	1121458989	melhdmr@hotmail.com	90
<input type="checkbox"/>			 Kalbimin Mezarı Street	544433223	1233168460	SeRseRiBeLa@hotmail.com	3
<input type="checkbox"/>			 Ver Bana Kalbini Street	65443454	1233168461	therewastotallydifferent@gmail.c	81
<input type="checkbox"/>			 Blackwater Street	150304110	1233168465	emily.green@hotmail.com	44
<input type="checkbox"/>			 Green Packer Street	546663332	1234453546	jackrosso@hotmail.com	1
<input type="checkbox"/>			 Dear Wholter Street	44322557	1366544890	yestree@hotmail.com	966
<input type="checkbox"/>			 Earth Deep Street	76587696	1366544891	sbogreenwich@gmail.com	33
<input type="checkbox"/>			 Fear Deep Street	45608979	1366544892	EsRaRKe\$h16@hotmail.com	55
<input type="checkbox"/>			 Darkhallow Street	223555621	1366544898	ronstonehaeat@hotmail.com	31
<input type="checkbox"/>			 Old Moscov Street	744564885	1411123546	victoria.straskova@hotmail.com	7
<input type="checkbox"/>			 Altinpark Street	54436765	1522230560	gearbestthe@gmail.com	90
<input type="checkbox"/>			 Sea Fight Street	78955456	1522230561	skateboard@gmail.com	3
<input type="checkbox"/>			 Red Three Street	52833690	1522230562	searcherman@gmail.com	39
<input type="checkbox"/>			 Techno Street	12547896	1522230563	medboy@gmail.com	31
<input type="checkbox"/>			 Drug Street	1452322	1522230564	drugboy47@gmail.com	30
<input type="checkbox"/>			 Cankaya Street	544868426	1522230568	aliemisier@hotmail.com	90
<input type="checkbox"/>			Roonwell Street	654563321	1523548956	marrywater@hotmail.com	44

4.4.4. Populating the Table COUNTRY

```
INSERT INTO `country` (`Ct_ID`, `CountryName`, `Cn_ID`)
```

```
VALUES
```

```
(1, 'ABD'),
```

```
(7, 'RUSSIA')
```

```
(30, 'GREECE'),
```

```
(31, 'NETHERLAND'),
```

```
(33, 'FRANCE'),
```

```
(39, 'ITALY'),
```




























```
(44, 'ENGLAND'),
```

```
(49, 'GERMANY'),
```

```
(81, 'JAPAN'),
```

```
(90, 'TURKEY'),
```

```
(966, 'SAUDI ARABIA'),
```

						Ct_ID	Ct_Name	
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	ABD
<input type="checkbox"/>		Düzenle		Kopyala		Sil	7	RUSSIA
<input type="checkbox"/>		Düzenle		Kopyala		Sil	30	GREECE
<input type="checkbox"/>		Düzenle		Kopyala		Sil	31	NETHERLAND
<input type="checkbox"/>		Düzenle		Kopyala		Sil	33	FRANCE
<input type="checkbox"/>		Düzenle		Kopyala		Sil	39	ITALY
<input type="checkbox"/>		Düzenle		Kopyala		Sil	44	ENGLAND
<input type="checkbox"/>		Düzenle		Kopyala		Sil	49	GERMANY
<input type="checkbox"/>		Düzenle		Kopyala		Sil	81	JAPAN
<input type="checkbox"/>		Düzenle		Kopyala		Sil	90	TURKEY
<input type="checkbox"/>		Düzenle		Kopyala		Sil	966	SAUDI ARABIA

4.4.5. Populating the Table DEPARTMENT

```
INSERT INTO `department` (`Department_ID`, `Dept_Name`)
VALUES
```

```
(5035, 'Head of Special Bureau'),
(5036, 'Chairmain of the Funds'),
(5037, 'Head of Gen. Air and Airc. Dep.'),
(5135, 'Head of Inspection Board'),
(5235, 'Quality Assurance Office'),
(5236, 'Corporate Safety Committee'),
(5237, 'Scurity Chief'),
(5238, 'Press Office'),
(5239, 'Legal Consultancy'),
(5240, 'Head of Flight Training'),
(5241, 'Technical Manager'),
```


+ Seçenekler

					Dept_ID	Dept_Name
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5035	Head of Special Bureau
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5036	Chairman of the Funds
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5037	Head of Gen. Air and Airc. Dep.
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5135	Head of Inspection Board
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5235	Quality Assurance Office
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5236	Corporate Safety Committee
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5237	Security Chief
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5238	Press Office
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5239	Legal Consultancy
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5240	Head of Flight Training
<input type="checkbox"/>		Düzenle		Kopyala		Sil
					5241	Technical Manager

☐ Tümüü işaretle
 Seçilileri:
 Düzenle
 Kopyala
 Sil

4.4.6. Populating the Table DISCOUNTS

INSERT INTO `discounts` (`Price_ID`, `Amount`, `Description`, `Title`)
VALUES

- (1, '12', 'Valentine's Day Super Discount', 'Valentine's Day'),
- (2, '14', 'Teachers' Day Super Discount', 'Teachers' Day'),
- (3, '10', 'New Airport Discount', 'New Airport'),
- (4, '8', 'Soldier Super Discoun', 'Soldier'),
- (5, '7', 'New University Students Discount', 'Students'),
- (6, '5', 'Black Friday Super Discount', 'Black Friday'),
- (7, '6', 'Ramadan Special Discount', 'Ramadan'),
- (8, '15', 'July Special Event', 'July Discount'),
- (9, '17', 'Fifty Percent Super Discount', 'Fifty Percent'),

Seçenekler

			Price_ID	Amount	1	Description	Title			
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	5	Black Friday Super Discount	Black Friday
<input type="checkbox"/>		Düzenle		Kopyala		Sil	7	6	Ramadan Special Discount	Ramadan
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	7	New University Students Discount	Students
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	8	Soldier Super Discount	Soldiers
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	10	New Airport Discount	New Aiport
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	12	Valentine's Day Super Discount	Valentine's Day
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	14	Teachers' Day Super Discount	Teachers' Day
<input type="checkbox"/>		Düzenle		Kopyala		Sil	8	15	July Special Event	July Discount
<input type="checkbox"/>		Düzenle		Kopyala		Sil	9	17	Fifty Percent Super Discount	Fifty Percent

☐ Tümünü işaretle

Seçilileri:

Düzenle

Kopyala

Sil

Dışa aktar












































































4.4.7. Populating the Table EMPLOYEE

INSERT INTO `employee` (`SSN`, `Age`, `Sex`, `Name`, `Surname`, `Dept.ID`)

VALUES

(1000030040, 31, 'Man', 'Cuneyt', 'MAKINE', 5236),
(1021024789, 31, 'Man', 'Berker', 'DENIZ', 5035),
(1025478520, 35, 'Man', 'Recep Tayyi', 'ERDOGAN', 5135),
(1042365789, 25, 'Woman', 'Nebile', 'KURTULUS', 5235),
(1047852145, 40, 'Woman', 'Büşra', 'SIBIC', 5037),
(1054782100, 54, 'Man', 'Onuriko', 'KOSOVA', 5135),
(1078965421, 32, 'Man', 'Alijon', 'FELLA', 5235),
(1104520300, 31, 'Man', 'Muhammed', 'KOCABAS', 5236),
(1203021450, 32, 'Man', 'Asad', 'MUHAMMAD', 5036),
(1234651321, 45, 'Man', 'Ahmet', 'ALTAN', 5036),
(1245456413, 25, 'Woman', 'Ece', 'AKDERE', 5236),
(1245648945, 35, 'Man', 'Selim', 'GOK', 5235),
(1445646861, 25, 'Woman', 'Kerime', 'INCESU', 5235),
(1445665862, 27, 'Woman', 'Selin', 'KULAHLI', 5240),
(1452146320, 36, 'Man', 'Ihsan', 'ELIBOL', 5235),
(1478521452, 42, 'Woman', 'Sabaniye', 'SERSERIKOV', 5235),
(1478523210, 54, 'Man', 'Ahmet', 'HAKAN', 5035),
(1478523214, 22, 'Man', 'Ghafar', 'ABDUL', 5036),

(1515451416, 24, 'Woman', 'Merve', 'SEZER', 5037),
 (1521145632, 42, 'Woman', 'Derya', 'OSMANOGLU', 5035),
 (1545452154, 28, 'Woman', 'Ilayda', 'DAGDELEN', 5241),
 (1789632145, 21, 'Woman', 'Jülide', 'DEMİRKOL', 5036),
 (2014785201, 31, 'Woman', 'Kemaliye', 'VURUR', 5135),
 (2023021452, 31, 'Woman', 'Hümeýra', 'YURT', 5037),
 (2025201478, 45, 'Man', 'George', 'CERJO', 5037);

+ Seçenekler							SSN	Age	Sex	Name	Surname	Dept_ID
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1000030040	31	Man	Cuneyt	MAKINE	5236
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1021024789	31	Man	Berker	DENİZ	5035
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1025478520	35	Man	Recep Tayyî	ERDOGAN	5135
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1042365789	25	Woman	Nebile	KURTULUS	5235
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1047852145	40	Woman	Büşra	SIBIC	5037
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1054782100	54	Man	Onuriko	KOSOVA	5135
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1078965421	32	Man	Alijon	FELLA	5235
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1104520300	31	Man	Muhammed	KOCABAS	5236
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1203021450	32	Man	Asad	MUHAMMAD	5036
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1234651321	45	Man	Ahmet	ALTAN	5036
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1245456413	25	Woman	Ece	AKDERE	5236
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1245648945	35	Man	Selim	GOK	5235
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1445646861	25	Woman	Kerime	INCESU	5235
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1445665862	27	Woman	Selin	KULAHLI	5240
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1452146320	36	Man	Ihsan	ELIBOL	5235
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1478521452	42	Woman	Sabaniye	SERSERIKOV	5235
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1478523210	54	Man	Ahmet	HAKAN	5035
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1478523214	22	Man	Ghafar	ABDUL	5036
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1515451416	24	Woman	Merve	SEZER	5037
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1521145632	42	Woman	Derya	OSMANOGLU	5035
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1545452154	28	Woman	Ilayda	DAGDELEN	5241
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1789632145	21	Woman	Jülide	DEMİRKOL	5036
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2014785201	31	Woman	Kemaliye	VURUR	5135
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2023021452	31	Woman	Hümeýra	YURT	5037
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2025201478	45	Man	George	CERJO	5037

4.4.8. Populating the Table FLIGHT_SCHEDULE

INSERT INTO `flight_schedule` (`Arrival`, `Departure`, `Flight_Date`, `Ft_ID`, `Aircraft`)
VALUES

(A 0137, 'KVJI', 'LTAN', '2019-03-13', '0'),
 (A 0148, 'RJTT', 'LTAN', '2019-03-14', '6'),
 (A 0157, 'LTAG', 'LTBJ', '2019-03-01', '10'),
 (A 0262, 'LEVD', 'LTAG', '2019-03-01', '7'),
 (E 0124, 'KVJI', 'LTAG', '2019-02-09', '6'),
 (E 0168, 'VIDP', 'EGLL', '2019-02-19', '3'),

+ Seçenekler

				Arrival	Departure	Flight_Date	Ft_ID	Aircraft
<input type="checkbox"/>	Düzenle	Kopyala	Sil	KVJI	LTAN	2019-03-13	A 0137	0
<input type="checkbox"/>	Düzenle	Kopyala	Sil	RJTT	LTAN	2019-03-14	A 0148	6
<input type="checkbox"/>	Düzenle	Kopyala	Sil	LTAG	LTBJ	2019-03-01	A 0157	10
<input type="checkbox"/>	Düzenle	Kopyala	Sil	LEVD	LTAG	2019-03-31	A 0262	7
<input type="checkbox"/>	Düzenle	Kopyala	Sil	KVJI	LTAG	2019-02-09	E 0124	6
<input type="checkbox"/>	Düzenle	Kopyala	Sil	VIDP	EGLL	2019-02-19	E 0168	3

☐ Tümünü işaretle Seçilileri: Düzenle Kopyala Sil Dışa aktar

4.4.9. Populating the Table MANUFACTURER

INSERT INTO `manufacturer` (`Name`, `Mf_Date`, `Mf_ID`, `Ft_ID`)

VALUES

(21000351, 'A319-132/100', '1987'),
 (21600100, 'A320-200', '1987'),
 (21600200, 'A321-200', '1988'),
 (28000500, 'A340-300', '1993'),
 (28600145, 'A330-300', '1993'),
 (28600200, 'A330-200', '1992'),
 (35000360, 'A321 NEO', '1993'),
 (36000108, 'B737-700', '1968'),
 (36000109, 'B737-800 ER', '1968'),
 (36000110, 'B737-900ER', '1967'),
 (48000100, 'B737-8 MAX', '2016'),

+ Seçenekler

					Name	Mf_Date	Mf_ID
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A319-132/100	1987	21000351
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A320-200	1987	21600100
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A321-200	1988	21600200
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A340-300	1993	28000500
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A330-300	1993	28600145
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A330-200	1992	28600200
<input type="checkbox"/>	Düzenle	Kopyala	Sil		A321 NEO	1993	35000360
<input type="checkbox"/>	Düzenle	Kopyala	Sil		B737-700	1968	36000108
<input type="checkbox"/>	Düzenle	Kopyala	Sil		B737-800 ER	1968	36000109
<input type="checkbox"/>	Düzenle	Kopyala	Sil		B737-900ER	1967	36000110
<input type="checkbox"/>	Düzenle	Kopyala	Sil		B737-8 MAX	2016	48000100

☐ Tümünü işaretle
 Seçilileri: Düzenle Kopyala Sil














































































4.4.10. Populating the Table PASSENGERS

INSERT INTO `passengers` (`Born_Date`, `Nationalty`, `SSN`, `Name`, `Surname`, `Contact`)

VALUES

(1996, 'AMERICAN', 102654898, 'GEORGE', 'SMITH', 1522230564),
 (1978, 'RUSSIAN', 147236589, 'ALEX', 'CHERYEVA', 1366544892),
 (1986, 'BRITISH', 201032145, 'ZEKI MICHEAL', 'SOLMAZ', 1411123546),
 (1998, 'TURKISH', 254447891, 'BERKER', 'ADIVAR', 1121458981),
 (1964, 'UKRAINIAN', 256322548, 'ANDRIEIEVA', 'GANNA', 1121458982),
 (1995, 'TURKISH', 256339874, 'AHMET', 'HAKAN', 1121458983),
 (1980, 'TURKISH', 257772844, 'MEHMET', 'DEMİRKOL', 1121458984),
 (1986, 'EGYPTIAN', 322200122, 'GHAFAR', 'ABDUL', 1121458985),
 (1982, 'EGYPTIAN', 325069982, 'ASAD', 'MUHAMMAD', 1121458986),
 (2000, 'RUSSIAN', 401230456, 'ALEXANDER', 'KUZMA', 1523548956),
 (2001, 'TURKISH', 405210320, 'KUBRA', 'DENİZ', 1522230568),
 (1974, 'RUSSIAN', 405302156, 'ASAD FERİD', 'ESODOV', 1522230562),
 (1998, 'EGYPTIAN', 630258741, 'GHAFAR MOHAMMAD', 'ABDULOSMAN', 1522230561),

(1996, 'RUSSIAN', 680809222, 'BELYAKOVA', 'ELVIRA', 1121458987),
 (1966, 'RUSSIAN', 682200123, 'MOHAN', 'SYAM', 1121458988),
 (1975, 'RUSSIAN', 682249327, 'KOPOSOV', 'PAVEL', 1121458989),
 (1979, 'RUSSIAN', 683529005, 'SOMINA', 'VALENTYNA', 1233168460),
 (1954, 'RUSSIAN', 684455232, 'GAMOV', 'VALARII', 1233168461),
 (1985, 'RUSSIAN', 684522398, 'KARPENKO', 'IRINA', 1233168465),
 (1996, 'TURKISH', 705806321, 'BELYAKOVA', 'SIBIC', 1522230563),
 (1975, 'AMERICAN', 729498746, 'JOHN', 'SMITH', 1234453546),
 (1965, 'TURKISH', 906321045, 'ALI OSMAN', 'GURSOY', 1522230560),
 (1997, 'UKRAINIAN', 987635210, 'DIANA', 'ASEDOV', 1366544898),
 (1988, 'UZBEKISTANI', 1102087619, 'ALLEN', 'LARISA', 1366544890),
 (1952, 'BRITISH', 1234654861, 'MICHAEL', 'COLD', 1366544891);

T. Çelepkenler				Born_Date	Nationality	SSN	Name	Surname	Contacts			
												
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1996	AMERICAN	102654898	GEORGE	SMITH	1522230564
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1978	RUSSIAN	147236589	ALEX	CHERYEVA	1366544892
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1986	BRITISH	201032145	ZEKI MICHEAL	SOLMAZ	1411123546
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1998	TURKISH	254447891	BERKER	ADIVAR	1121458981
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1964	UKRAINIAN	256322548	ANDRIEIEVA	GANNA	1121458982
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1995	TURKISH	256339874	AHMET	HAKAN	1121458983
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1980	TURKISH	257772844	MEHMET	DEMİRKOL	1121458984
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1986	EGYPTIAN	322200122	GHAFAR	ABDUL	1121458985
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1982	EGYPTIAN	325069982	ASAD	MUHAMMAD	1121458986
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2000	RUSSIAN	401230456	ALEXANDER	KUZMA	1523548956
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2001	TURKISH	405210320	KUBRA	DENİZ	1522230568
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1974	RUSSIAN	405302156	ASAD FERİD	ESODOV	1522230562
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1998	EGYPTIAN	630258741	GHAFAR MOHAMMAD	ABDULOSMAN	1522230561
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1996	RUSSIAN	680809222	BELYAKOVA	ELVIRA	1121458987
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1966	RUSSIAN	682200123	MOHAN	SYAM	1121458988
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1975	RUSSIAN	682249327	KOPOSOV	PAVEL	1121458989
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1979	RUSSIAN	683529005	SOMINA	VALENTYNA	1233168460
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1954	RUSSIAN	684455232	GAMOV	VALARII	1233168461
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1985	RUSSIAN	684522398	KARPENKO	IRINA	1233168465
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1996	TURKISH	705806321	BELYAKOVA	SIBIC	1522230563
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1975	AMERICAN	729498746	JOHN	SMITH	1234453546
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1965	TURKISH	906321045	ALI OSMAN	GURSOY	1522230560
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1997	UKRAINIAN	987635210	DIANA	ASEDOV	1366544898
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1988	UZBEKISTANI	1102087619	ALLEN	LARISA	1366544890
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1952	BRITISH	1234654861	MICHAEL	COLD	1366544891

4.4.11. Populating the Table STATE

```
INSERT INTO `state` (`StateID`, `StateName`, `Country`)
VALUES
(1, 'LOS ANGELES', 1),
(3, 'CALIFORNIA', 1),
(4, 'MUNICH', 49),
(7, 'MOSCOV', 7),
(16, 'BURSA', 90),
(30, 'ATINA', 30),
(31, 'AMSTERDAM', 31),
(33, 'PARIS', 33),
(39, 'ROME', 39),
(44, 'LONDON', 44),
(49, 'BERLIN', 49),
(55, 'SAMSUN', 90),
(81, 'TOKYO', 81),
(90, 'ANKARA', 90),
(966, 'RIYADH', 966);
```

+ Seçenekler

<div><div><div></div><div></div><div></div></div></div>				State_ID	State_Name	Country			
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	1	LOS ANGELES	1
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	3	CALIFORNIA	1
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	4	MUNICH	49
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	7	MOSCOV	7
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	16	BURSA	90
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	30	ATINA	30
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	31	AMSTERDAM	31
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	33	PARIS	33
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	39	ROME	39
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	44	LONDON	44
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	49	BERLIN	49
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	55	SAMSUN	90
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	81	TOKYO	81
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	90	ANKARA	90
<div><div><div></div><div></div><div></div></div></div>	<div><div><div></div><div></div><div></div></div></div>	Düzenle	<div><div><div></div><div></div><div></div></div></div>	Kopyala	<div><div><div></div><div></div><div></div></div></div>	Sil	966	RIYADH	966

4.4.12. Populating the Table TEAM

INSERT INTO `team` (`T_ID`, `Emp_ID`)

VALUES

(151060020, '1445665862'),

(151060021, '1545452154'),

(151060022, '1245456413'),

(151060023, '1445665862'),

(151060024, '1234651321'),

(151060025, '1445665862'),

(151060026, '1545452154'),

(151060027, '1515451416'),

(151060028, '1545452154'),

(151060029, '1515451416'),




















































(151060030, '1515451416'),

(151060031, '1234651321'),

(151060032, '1515451416'),

(151060033, '1515451416'),

(151060034, '1245456413'),

+ Seçenekler					T_ID	Emp_ID
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil
<input type="checkbox"/>		Düzenle		Kopyala		Sil


































4.4.13. Populating the Table TICKET

```
INSERT INTO `ticket` (`PNR_No`, `Price`, `Route`, `Discounts`)
VALUES
```

```
('GTXMR', 105, 'A 0137', 1),
('HKJMF', 326, 'A 0137', 2),
('JQWTR', 150, 'A 0137', 3),
('KKDCV', 650, 'A 0148', 4),
('KPHNZ', 50, 'A 0148', 5),
('KRMPT', 2560, 'A 0148', 6),
```

('MJKCK', 65, 'A 0157', 7),
('RTEXV', 357, 'A 0157', 8),
('TQKRP', 75, 'A 0157', 9),
('XFXWM', 3200, 'E 0168', 1),
('XHHBG', 105, 'E 0168', 2);

+ Seçenekler

				PNR_No	Price	Route	Discounts			
<input type="checkbox"/>		Düzenle		Kopyala		Sil	GTXMR	105	A 0137	1
<input type="checkbox"/>		Düzenle		Kopyala		Sil	HKJMF	326	A 0137	2
<input type="checkbox"/>		Düzenle		Kopyala		Sil	JQWTR	150	A 0137	3
<input type="checkbox"/>		Düzenle		Kopyala		Sil	KKDCV	650	A 0148	4
<input type="checkbox"/>		Düzenle		Kopyala		Sil	KPHNZ	50	A 0148	5
<input type="checkbox"/>		Düzenle		Kopyala		Sil	KRMPT	2560	A 0148	6
<input type="checkbox"/>		Düzenle		Kopyala		Sil	MJKCK	65	A 0157	7
<input type="checkbox"/>		Düzenle		Kopyala		Sil	RTEXV	357	A 0157	8
<input type="checkbox"/>		Düzenle		Kopyala		Sil	TQKRP	75	A 0157	9
<input type="checkbox"/>		Düzenle		Kopyala		Sil	XFXWM	3200	E 0168	1
<input type="checkbox"/>		Düzenle		Kopyala		Sil	XHHBG	105	E 0168	2

5. NORMALIZATION

.

5.1. NORMALIZATION FOR STATE TABLE

State (State_ID, State_Name, Country)

1NF

- ✓ There are not any columns that can be split into more than one column.
- ✓ Primary Key exists.
- ✓ There are not any columns that are closely related or repeating the same attribute.
- ✓ There are no redundant columns.

2NF

- ✓ Already in the 1NF.
- ✓ No partial dependency.

3NF

- ✓ Already in the 2NF.
- ✓ No transitive dependencies since the table does not have any non primary columns.

5.2. NORMALIZATION FOR COUNTRY TABLE

Country (Ct_ID, Ct_Name)

1NF

- ✓ There are not any columns that can be split into more than one column.
- ✓ Primary Key exists.
- ✓ There are not any columns that are closely related or repeating the same attribute.
- ✓ There are no redundant columns.

2NF

- ✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.3. NORMALIZATION FOR CONTACT_DETAILS TABLE

Contact_Details (Cn_ID, E_mail, Phone, Street, State)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.4. NORMALIZATION FOR PASSENGERS TABLE

Passengers (SSN, Name, Surname, Nationality, Born Date, Contacts)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.5. NORMALIZATION FOR TICKET TABLE

Ticket (PNR_NO,Route,Discounts,Price)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.6. NORMALIZATION FOR DISCOUNTS TABLE

Discounts (Price ID, Title, Amount, Description)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.7. NORMALIZATION FOR FLIGHT_SCHEDULE TABLE

Flight_Schedule (Ft_ID, Flight Date, Arrival, Departure, Aircraft)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.8. NORMALIZATION FOR AIRPORT TABLE

Airports (ICAO, NAME)

1NF

- ✓ There are not any columns that can be split into more than one column.
- ✓ Primary Key exists.
- ✓ There are not any columns that are closely related or repeating the same attribute.
- ✓ There are no redundant columns.

2NF

- ✓ Already in the 1NF.
- ✓ No partial dependency.

3NF

- ✓ Already in the 2NF.
- ✓ No transitive dependencies since the table does not have any non primary columns.

5.9. NORMALIZATION FOR AIRCRAFTS TABLE

Aircrafts (Ac_ID, Name, Capacity, Mfd_By)

1NF

- ✓ There are not any columns that can be split into more than one column.
- ✓ Primary Key exists.
- ✓ There are not any columns that are closely related or repeating the same attribute.
- ✓ There are no redundant columns.

2NF

- ✓ Already in the 1NF.
- ✓ No partial dependency.

3NF

- ✓ Already in the 2NF.
- ✓ No transitive dependencies since the table does not have any non primary columns.

5.10. NORMALIZATION FOR MANUFACTURER TABLE

Manufacturer (Mf ID, Name, Mf Date)

1NF

- ✓ There are not any columns that can be split into more than one column.
- ✓ Primary Key exists.
- ✓ There are not any columns that are closely related or repeating the same attribute.
- ✓ There are no redundant columns.

2NF

- ✓ Already in the 1NF.
- ✓ No partial dependency.

3NF

- ✓ Already in the 2NF.
- ✓ No transitive dependencies since the table does not have any non primary columns.

5.11. NORMALIZATION FOR TEAM TABLE

Team (T ID, Emp ID)

1NF

- ✓ There are not any columns that can be split into more than one column.
- ✓ Primary Key exists.
- ✓ There are not any columns that are closely related or repeating the same attribute.
- ✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.12. NORMALIZATION FOR EMPLOYEE TABLE

Employee (SSN, Name, Surname, Sex, Age, Dept_ID)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

5.13. NORMALIZATION FOR DEPARTMENTS TABLE

Departments (Dept_ID, Dept_Name)

1NF

✓ There are not any columns that can be split into more than one column.

✓ Primary Key exists.

✓ There are not any columns that are closely related or repeating the same attribute.

✓ There are no redundant columns.

2NF

✓ Already in the 1NF.

✓ No partial dependency.

3NF

✓ Already in the 2NF.

✓ No transitive dependencies since the table does not have any non primary columns.

6. QUERIES

6.1. SELECT * FROM

This query will show every record in from the selected table. In our case, it will show every record from the Table aircrafts.

```
SELECT * FROM aircrafts
```

Result:


```
SELECT * FROM aircrafts
```

☐ Tümünü göster

Satır sayısı: 25 ▼

Satırları süz: Bu tabloda ara

+ Seçenekler

					Ac_ID	Name	Capacity	Mfd_By		
<input type="checkbox"/>		Düzenle		Kopyala		Sil	0	A340-300	350	2
<input type="checkbox"/>		Düzenle		Kopyala		Sil	1	A330-300	300	37
<input type="checkbox"/>		Düzenle		Kopyala		Sil	2	A330-200	250	18
<input type="checkbox"/>		Düzenle		Kopyala		Sil	3	A321-200	180	68
<input type="checkbox"/>		Düzenle		Kopyala		Sil	4	A320-200	159	18
<input type="checkbox"/>		Düzenle		Kopyala		Sil	5	A319-132/100	132	6
<input type="checkbox"/>		Düzenle		Kopyala		Sil	6	B777-300 ER	400	33
<input type="checkbox"/>		Düzenle		Kopyala		Sil	7	B737-800	165	99
<input type="checkbox"/>		Düzenle		Kopyala		Sil	8	B737-700	124	1
<input type="checkbox"/>		Düzenle		Kopyala		Sil	9	B737-900 ER	169	15
<input type="checkbox"/>		Düzenle		Kopyala		Sil	10	A321 NEO	182	4
<input type="checkbox"/>		Düzenle		Kopyala		Sil	11	B737-8 MAX	151	12

6.2. SELECTING FROM table

This query will show only the indicated fields' records. In our case, it will show only the SSN and Name but not the other fields from the Table employee.

```
SELECT SSN,Name
```






















```
FROM employee
```

Result:


```
SELECT SSN , Name FROM `employee`
```

☐ Tümünü göster | Satır sayısı: 25 ▼ Satırları

+ Seçenekler

				SSN	Name
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1234651321	Ahmet
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1245456413	Ece
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1245648945	Selim
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1445646861	Kerime
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1445665862	Selin
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1515451416	Merve
<input type="checkbox"/>		Düzenle		Kopyala	 Sil
				1545452154	Ilayda

6.3. SELECT DISTINCT

This query will show only different values and not the duplicate ones. In our case, it will show distinct values from the Table passengers.

```
SELECT DISTINCT Nationality FROM Passenger
```

Result:

Nationality
TURKISH
UKRAINIAN
EGYPTIAN
RUSSIAN
AMERICAN
UZBEKISTANI
BRITISH

6.4. SELECT COUNT (DISTINCT x) FROM y

This query will list the number of different values in a table. In our case, it will show the count of different Name from the Table passengers.

SELECT COUNT (DISTINCT Name) FROM Passenger

Result:

Query shows the count as 15. There are 15 records in passenger Table. So, none of them have the same Name.

```
SELECT COUNT(DISTINCT Name) FROM passengers
```

+ Seçenekler

COUNT(DISTINCT Name)
15

6.5. SELECT x FROM y WHERE x ...

This query will filter the records in table according to the condition we indicate. In our case, it will show the employees that less than 30 years old.

SELECT Name, Age

FROM employee

WHERE Age < 30

Result:

```
SELECT Name , Age FROM `employee` WHERE Age < 30
```

☐ Profil çıkart [Satır içi düzenle] [Düzenle] [Sil]

☐ Tümünü göster | Satır sayısı: 25 ▼

+ Seçenekler

Name	Age
Ece	25
Kerime	25
Selin	27
Merve	24
Ilayda	28

6.6. SELECT x FROM y WHERE x BETWEEN

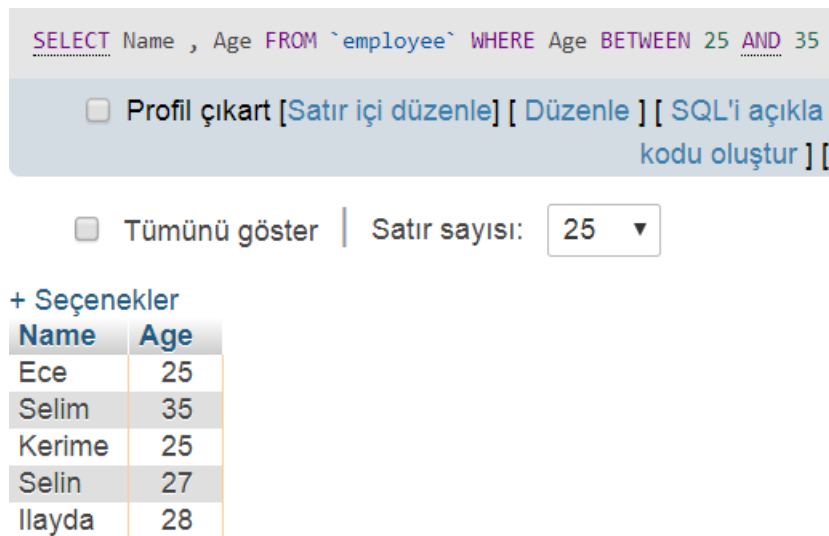
This query will filter the records in table according to the condition we indicate. In our case, it will show the employee that between 25 and 35 years old.

```
SELECT Name, Age
```

```
FROM employee
```

```
WHERE Age BETWEEN 25 AND 35
```

Result:



The screenshot shows a SQL query editor interface. At the top, the query is entered: `SELECT Name, Age FROM `employee` WHERE Age BETWEEN 25 AND 35`. Below the query, there are several interactive buttons: a checkbox for 'Profil çıkart', a link for '[Satır içi düzenle]', a link for '[Düzenle]', a link for '[SQL'i açıkla]', and a link for 'kodu oluştur'. Below these buttons, there is a checkbox for 'Tümünü göster' and a dropdown menu for 'Satır sayısı' set to '25'. At the bottom, there is a section titled '+ Seçenekler' which contains a table with two columns: 'Name' and 'Age'.

Name	Age
Ece	25
Selim	35
Kerime	25
Selin	27
Ilayda	28

6.7. SELECT * FROM x ORDER BY y DESC

This query will sort the selection in descending order. In our case, it will sort the results of aircrafts in descending order by capacity.

```
SELECT * FROM aircrafts
```

```
ORDER BY Capacity DESC
```

Result:

SELECT * FROM `aircrafts` ORDER BY Capacity DESC							
<input type="checkbox"/> Tümünü göster Satır sayısı: 25 ▼ Satırları süz: Bu tabloda ara							
+ Seçenekler							
← T →	▼	Ac_ID	Name	Capacity ▼ 1	Mfd_By		
<input type="checkbox"/> Düzenle Kopyala Sil		6	B777-300 ER	400	33		
<input type="checkbox"/> Düzenle Kopyala Sil		0	A340-300	350	2		
<input type="checkbox"/> Düzenle Kopyala Sil		1	A330-300	300	37		
<input type="checkbox"/> Düzenle Kopyala Sil		2	A330-200	250	18		
<input type="checkbox"/> Düzenle Kopyala Sil		10	A321 NEO	182	4		
<input type="checkbox"/> Düzenle Kopyala Sil		3	A321-200	180	68		
<input type="checkbox"/> Düzenle Kopyala Sil		9	B737-900 ER	169	15		
<input type="checkbox"/> Düzenle Kopyala Sil		7	B737-800	165	99		
<input type="checkbox"/> Düzenle Kopyala Sil		4	A320-200	159	18		
<input type="checkbox"/> Düzenle Kopyala Sil		11	B737-8 MAX	151	12		
<input type="checkbox"/> Düzenle Kopyala Sil		5	A319-132/100	132	6		
<input type="checkbox"/> Düzenle Kopyala Sil		8	B737-700	124	1		

6.8. INSERTING





















































This query will insert a new row to an existing table with values. In our case, it will insert a new airport into our airport table.

INSERT INTO airport

(ICAO,Name)

VALUES ('ZBAA','Beijing International')

Result:

<input type="checkbox"/>		Düzenle		Kopyala		Sil	EDDF	Frankfurt Airport
<input type="checkbox"/>		Düzenle		Kopyala		Sil	EGLL	London Heathrow Airport
<input type="checkbox"/>		Düzenle		Kopyala		Sil	KVJI	Virginia Highlands
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LEBL	Barcelona El Prat Airport
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LEVD	Spain-Valladolid
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LFPG(Paris-Charles de Gaulle
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LMML(Malta International
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTAC	(Ankara-Esenboğa)
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTAG	Adana-İncirlik
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTAI	Antalya
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTAN(Konya
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTBA(İstanbul-Atatürk
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTBJ	İzmir-Menderes
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTCB	Ağrı
<input type="checkbox"/>		Düzenle		Kopyala		Sil	LTCG	Trabzon
<input type="checkbox"/>		Düzenle		Kopyala		Sil	OMAA	Abu Dhabi International
<input type="checkbox"/>		Düzenle		Kopyala		Sil	RJTT	Tokyo Haneda Airport
<input type="checkbox"/>		Düzenle		Kopyala		Sil	VIDP	Indira Gandhi Int. Airport
<input type="checkbox"/>		Düzenle		Kopyala		Sil	ZBAA	Beijing International

6.9. UPDATING

This query will change the existing record in a table. In our case, it will change the Dept_ID we previously inserted into our department Table.

```
UPDATE department SET Dept_ID = '5241' WHERE Dept_Name = 'Technical Manager'
```

Result:

				Dept_ID	Dept_Name
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5035 Head of Special Bureau
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5036 Chairman of the Funds
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5037 Head of Gen. Air and Airc. Dep.
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5135 Head of Inspection Board
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5235 Quality Assurance Office
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5236 Corporate Safety Committee
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5237 Security Chief
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5238 Press Office
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5239 Legal Consultancy
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5240 Head of Flight Training
<input type="checkbox"/>		Düzenle	 Kopyala	 Sil	5241 Technical Manager

6.10. DELETING

This query will remove an existing record in a table. In our case, it will remove the aircrafts we previously inserted into our aircrafts Table.

DELETE FROM aircrafts WHERE Ac_ID = '12'

Result: The record with the Ac_ID of 12 is now gone.

8	B737-700	124	1
9	B737-900 ER	169	15
10	A321 NEO	182	4
11	B737-8 MAX	151	12

6.11. EMPTYING A TABLE

This query will delete every single record existing in a table. In our case, it will remove all of the records in our Team Table.

DELETE FROM 'Team'

Result:

All records are gone in our Team Table.

T_ID	Emp_ID
------	--------

6.12. SELECT * FROM x LIMIT y

This query will show the equivalent example from a table. In our case, this table will be Country.

SELECT * FROM Country LIMIT 4

Results:

```
SELECT * FROM `country` LIMIT 4
```

+ Seçenekler		CountryID	CountryName
<input type="checkbox"/>	Düzenle Kopyala Sil	1	ABD
<input type="checkbox"/>	Düzenle Kopyala Sil	7	RUSSIA
<input type="checkbox"/>	Düzenle Kopyala Sil	30	GREECE
<input type="checkbox"/>	Düzenle Kopyala Sil	31	NETHERLAND

6.13. MIN () & MAX ()

This query will use MIN () and MAX () functions to show the smallest and largest values of a column in a table. In our case, MIN () function will show the minimum capacity of our aircrafts, and MAX () function will show the maximum capacity of our aircrafts .

- SELECT MIN (Capacity) AS MinimumCapacity FROM Aircrafts
- SELECT MAX (Capacity) AS MaximumCapacity FROM Aircrafts

Results:

MinimumCapacity	MaximumCapacity
124	400

6.14. LIKE

This query will use LIKE operator to search for an indicated pattern in a column of a table. In our case, it will find the passengers with a name starting with the letter 'a'.

– SELECT Name FROM Passenger WHERE
Name LIKE 'a%'

Results:

Name
ANDRIEIEVA
AHMET
ASAD
ALLEN