04 Mart 2021

**DATABASE**

**MANAGEMENT**

FINAL PROJECT

Group 6

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İÇİNDEKİLER

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# 

# **PART-II**

**1.Write down the appropriate SQL scripts (DDL statements) for creating the database and its relational model. You can select any of the DBMS you wish.**

MySQL kullanılmıştır.

CREATE TABLE COMPANY

(

Company\_code varchar(20) NOT NULL,

Company\_name varchar(50) NOT NULL,

PRIMARY KEY (Company\_code)

);

CREATE TABLE AIRPLANE\_TYPE

(

Airplane\_type\_name varchar(20) NOT NULL,

Company\_code varchar(20) NOT NULL ,

Max\_seats int NOT NULL,

PRIMARY KEY (Airplane\_type\_name),

FOREIGN KEY (Company\_code) REFERENCES COMPANY(Company\_code)

);

CREATE TABLE AIRLINE

(

Airline\_code varchar(20) NOT NULL,

Company\_code varchar(20) NOT NULL ,

PRIMARY KEY (Airline\_code),

FOREIGN KEY (Company\_code) REFERENCES COMPANY(Company\_code)

);

CREATE TABLE AIRPLANE

(

Airplane\_code varchar(20) NOT NULL,

Total\_number\_of\_seats int NOT NULL,

Airplane\_type varchar(20) NOT NULL,

Airline\_code varchar(20) NOT NULL,

PRIMARY KEY (Airplane\_code),

FOREIGN KEY (Airplane\_type) REFERENCES AIRPLANE\_TYPE(Airplane\_type\_name),

FOREIGN KEY (Airline\_code) REFERENCES AIRLINE(Airline\_code)

);

CREATE TABLE AIRPORT

(

Airport\_code varchar(10) NOT NULL,

Name varchar(50) NOT NULL,

City varchar(50) NOT NULL,

State varchar(50) NOT NULL,

PRIMARY KEY (Airport\_code)

);

CREATE TABLE CAN\_LAND

(

Airplane\_type\_name varchar(20) NOT NULL ,

Airport\_code varchar(10) NOT NULL ,

PRIMARY KEY (Airplane\_type\_name,Airport\_code),

FOREIGN KEY (Airplane\_type\_name) REFERENCES AIRPLANE\_TYPE(Airplane\_type\_name),

FOREIGN KEY (Airport\_code) REFERENCES AIRPORT(Airport\_code)

);

CREATE TABLE CUSTOMER

(

Customer\_id varchar(10) NOT NULL,

Customer\_name varchar(50) NOT NULL,

Passport\_number varchar(50) NULL,

Country varchar(20) NOT NULL,

Address varchar(50) NOT NULL,

Customer\_phone varchar(15) NOT NULL,

E\_mail varchar(30) NOT NULL,

PRIMARY KEY (Customer\_id)

);

CREATE TABLE FLIGHT

(

Flight\_number varchar(10) NOT NULL,

Airline\_code varchar(20) NOT NULL ,

Weekdays char(10) NOT NULL,

PRIMARY KEY (Flight\_number) ,

FOREIGN KEY (Airline\_code) REFERENCES AIRLINE(Airline\_code)

);

CREATE TABLE FLIGHT\_LEG

(

Leg\_number varchar(10) NOT NULL,

Flight\_number varchar(10) NOT NULL ,

-- Date date NOT NULL,

Departure\_airport\_code varchar(10) NOT NULL ,

Scheduled\_departure\_time TIME NOT NULL,

Arrival\_airport\_code varchar(10) NOT NULL ,

Scheduled\_arrival\_time TIME NOT NULL,

Millage int NOT NULL,

PRIMARY KEY (Leg\_number,Flight\_number),

FOREIGN KEY (Flight\_number) REFERENCES FLIGHT(Flight\_number),

FOREIGN KEY (Departure\_airport\_code) REFERENCES AIRPORT(Airport\_code),

FOREIGN KEY (Arrival\_airport\_code) REFERENCES AIRPORT(Airport\_code)

);

CREATE TABLE FARE

(

Fare\_code varchar(10) NOT NULL,

Flight\_number varchar(10) NOT NULL ,

Amount int NOT NULL,

Restrictions varchar(50) NOT NULL,

PRIMARY KEY (Fare\_code),

FOREIGN KEY (Flight\_number) REFERENCES FLIGHT(Flight\_number)

);

CREATE TABLE LEG\_INSTANCE

(

Flight\_number varchar(10) NOT NULL ,

Leg\_number varchar(10) NOT NULL ,

Date date NOT NULL,

Number\_of\_available\_seats int NOT NULL,

Airplane\_code varchar(20) NOT NULL ,

Departure\_airport\_code varchar(10) NOT NULL ,

Departure\_time TIME NOT NULL,

Arrival\_airport\_code varchar(10) NOT NULL ,

Arrival\_time TIME NOT NULL,

PRIMARY KEY (Flight\_number,Leg\_number,Date),

FOREIGN KEY (Flight\_number) REFERENCES FLIGHT(Flight\_number),

FOREIGN KEY (Leg\_number) REFERENCES FLIGHT\_LEG(Leg\_number),

FOREIGN KEY (Airplane\_code) REFERENCES AIRPLANE(Airplane\_code),

FOREIGN KEY (Departure\_airport\_code) REFERENCES AIRPORT(Airport\_code),

FOREIGN KEY (Arrival\_airport\_code) REFERENCES AIRPORT(Airport\_code)

);

CREATE TABLE RESERVATION

(

Customer\_id varchar(10) NOT NULL ,

Flight\_number varchar(10) NOT NULL ,

Flight\_leg\_number varchar(10) NOT NULL ,

Date date NOT NULL,

Seat\_number varchar(10) NOT NULL ,

Checked\_in int NOT NULL,

PRIMARY KEY (Customer\_id,Flight\_number,Flight\_leg\_number,Seat\_number),

FOREIGN KEY (Flight\_number) REFERENCES LEG\_INSTANCE(Flight\_number),

FOREIGN KEY (Flight\_leg\_number) REFERENCES LEG\_INSTANCE(Leg\_number),

FOREIGN KEY (Customer\_id) REFERENCES CUSTOMER(Customer\_id)

);

CREATE TABLE FFC

(

Customer\_id varchar(10) NOT NULL,

Airline\_code varchar(20) NOT NULL,

Total\_millage int NOT NULL,

PRIMARY KEY (Customer\_id,Airline\_code),

FOREIGN KEY (Customer\_id) REFERENCES CUSTOMER(Customer\_id),

FOREIGN KEY (Airline\_code) REFERENCES AIRLINE(Airline\_code)

);

CREATE TABLE SEGMENT

(

Segment\_name varchar(20) NOT NULL,

Millage\_min int NOT NULL,

Millage\_max int NOT NULL,

Airline\_code varchar(20) NOT NULL,

PRIMARY KEY (Segment\_name,Airline\_code),

FOREIGN KEY (Airline\_code) REFERENCES AIRLINE(Airline\_code)

);

**2. Populate the database you just created again using SQL script file loaded with sample tuples. (The tables should have enough number of tuples for the SELECT statements, asked in the 5th step, to be run accordingly.)**

INSERT INTO COMPANY VALUES('CMP0001', 'Pegasus Hava Yolları');

INSERT INTO COMPANY VALUES('CMP0002', 'Türk Hava Yolları');

INSERT INTO COMPANY VALUES('CMP0003', 'Sunexpress A.Ş');

INSERT INTO COMPANY VALUES('CMP0004', 'Anadolu Jet Hava Yolları A.Ş');

INSERT INTO COMPANY VALUES('CMP0005', 'The Boeing Company');

INSERT INTO COMPANY VALUES('CMP0006', 'Airbus SE');

INSERT INTO COMPANY VALUES('CMP0007', 'Onur Havayolları Taşımacılık A.Ş.');

INSERT INTO AIRLINE VALUES('PEGASUS', 'CMP0001');

INSERT INTO AIRLINE VALUES('THY', 'CMP0002');

INSERT INTO AIRLINE VALUES('SUNEXPRESS', 'CMP0003');

INSERT INTO AIRLINE VALUES('ANADOLUJET', 'CMP0004');

INSERT INTO AIRLINE VALUES('ONURAIR', 'CMP0007');

-- AIRBUS UÇAKLARI

INSERT INTO AIRPLANE\_TYPE VALUES('AIRBUS A330', 'CMP0006', 300);

INSERT INTO AIRPLANE\_TYPE VALUES('AIRBUS A340', 'CMP0006', 239);

INSERT INTO AIRPLANE\_TYPE VALUES('AIRBUS A321', 'CMP0006', 185);

INSERT INTO AIRPLANE\_TYPE VALUES('AIRBUS A320', 'CMP0006', 186);

INSERT INTO AIRPLANE\_TYPE VALUES('AIRBUS A310', 'CMP0006', 187);

-- BOEING UÇAKLARI

INSERT INTO AIRPLANE\_TYPE VALUES('BOEING 737', 'CMP0005', 215);

INSERT INTO AIRPLANE\_TYPE VALUES('BOEING 747', 'CMP0005', 467);

INSERT INTO AIRPLANE\_TYPE VALUES('BOEING 767', 'CMP0005', 375);

INSERT INTO AIRPLANE\_TYPE VALUES('BOEING 777', 'CMP0005', 301);

INSERT INTO AIRPLANE\_TYPE VALUES('BOEING 787', 'CMP0005', 330);

-- test uçakları bu uçak tipi hiç bir havalimanına inemiyor

INSERT INTO AIRPLANE\_TYPE VALUES('BOEING 999', 'CMP0005', 999);

INSERT INTO AIRPLANE VALUES('APL000999', 999, 'BOEING 999', 'THY');

-- 'BOEING 737' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000001', 215, 'BOEING 737', 'THY');

INSERT INTO AIRPLANE VALUES('APL000002', 215, 'BOEING 737', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000003', 215, 'BOEING 737', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000004', 215, 'BOEING 737', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000005', 215, 'BOEING 737', 'THY');

INSERT INTO AIRPLANE VALUES('APL000006', 215, 'BOEING 737', 'PEGASUS');

-- 'BOEING 747' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000007', 467, 'BOEING 747', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000008', 467, 'BOEING 747', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000009', 467, 'BOEING 747', 'THY');

INSERT INTO AIRPLANE VALUES('APL000010', 467, 'BOEING 747', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000011', 467, 'BOEING 747', 'ANADOLUJET');

-- 'BOEING 767' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000012', 375, 'BOEING 767', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000013', 375, 'BOEING 767', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000014', 375, 'BOEING 767', 'THY');

-- 'BOEING 777' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000015', 301, 'BOEING 777', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000016', 301, 'BOEING 777', 'THY');

INSERT INTO AIRPLANE VALUES('APL000017', 301, 'BOEING 777', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000018', 301, 'BOEING 777', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000019', 301, 'BOEING 777', 'ONURAIR');

-- 'BOEING 787' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000020', 330, 'BOEING 787', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000021', 330, 'BOEING 787', 'THY');

INSERT INTO AIRPLANE VALUES('APL000022', 330, 'BOEING 787', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000023', 330, 'BOEING 787', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000024', 330, 'BOEING 787', 'ONURAIR');

-- 'AIRBUS 330' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000025', 300, 'AIRBUS A330', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000026', 300, 'AIRBUS A330', 'THY');

INSERT INTO AIRPLANE VALUES('APL000027', 300, 'AIRBUS A330', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000028', 300, 'AIRBUS A330', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000029', 300, 'AIRBUS A330', 'ONURAIR');

INSERT INTO AIRPLANE VALUES('APL000030', 300, 'AIRBUS A330', 'PEGASUS');

-- 'AIRBUS A340' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000031', 239, 'AIRBUS A340', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000032', 239, 'AIRBUS A340', 'THY');

INSERT INTO AIRPLANE VALUES('APL000033', 239, 'AIRBUS A340', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000034', 239, 'AIRBUS A340', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000035', 239, 'AIRBUS A340', 'ONURAIR');

INSERT INTO AIRPLANE VALUES('APL000036', 239, 'AIRBUS A340', 'PEGASUS');

-- 'AIRBUS A321' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000037', 185, 'AIRBUS A321', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000038', 185, 'AIRBUS A321', 'THY');

INSERT INTO AIRPLANE VALUES('APL000039', 185, 'AIRBUS A321', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000040', 185, 'AIRBUS A321', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000041', 185, 'AIRBUS A321', 'ONURAIR');

INSERT INTO AIRPLANE VALUES('APL000042', 185, 'AIRBUS A321', 'PEGASUS');

-- 'AIRBUS A320' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000043', 186, 'AIRBUS A320', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000044', 186, 'AIRBUS A320', 'THY');

INSERT INTO AIRPLANE VALUES('APL000045', 186, 'AIRBUS A320', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000046', 186, 'AIRBUS A320', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000047', 186, 'AIRBUS A320', 'ONURAIR');

INSERT INTO AIRPLANE VALUES('APL000048', 186, 'AIRBUS A320', 'PEGASUS');

-- 'AIRBUS A310' type ında üretilen uçaklar

INSERT INTO AIRPLANE VALUES('APL000049', 187, 'AIRBUS A310', 'PEGASUS');

INSERT INTO AIRPLANE VALUES('APL000050', 187, 'AIRBUS A310', 'THY');

INSERT INTO AIRPLANE VALUES('APL000051', 187, 'AIRBUS A310', 'SUNEXPRESS');

INSERT INTO AIRPLANE VALUES('APL000052', 187, 'AIRBUS A310', 'ANADOLUJET');

INSERT INTO AIRPLANE VALUES('APL000053', 187, 'AIRBUS A310', 'ONURAIR');

INSERT INTO AIRPLANE VALUES('APL000054', 187, 'AIRBUS A310', 'PEGASUS');

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INSERT INTO AIRPORT VALUES('ADA/LTAF', 'Şakirpaşa Havalimanı', 'Adana', 'Adana');

INSERT INTO AIRPORT VALUES('ESB/LTAC', 'Ankara Esenboğa Havalimanı', 'Ankara', 'Ankara');

INSERT INTO AIRPORT VALUES('AYT/LTAI', 'Antalya Havalimanı', 'Antalya', 'Antalya');

INSERT INTO AIRPORT VALUES('GZP/LTFG', 'Gazipaşa Havalimanı', 'Antalya', 'Antalya');

INSERT INTO AIRPORT VALUES('EDO/LTFD', 'Balıkesir Koca Seyit Havalimanı', 'Balıkesir', 'Balıkesir');

INSERT INTO AIRPORT VALUES('YEI/LTBR', 'Bursa Yenişehir Havalimanı', 'Bursa', 'Bursa');

INSERT INTO AIRPORT VALUES('CKZ/LTBH', 'Çanakkale Havalimanı', 'Çanakkale', 'Çanakkale');

INSERT INTO AIRPORT VALUES('DNZ/LTAY', 'Denizli Çardak Havalimanı', 'Denizli', 'Denizli');

INSERT INTO AIRPORT VALUES('DIY/LTCC', 'Diyarbakır Havalimanı', 'Diyarbakır', 'Diyarbakır');

INSERT INTO AIRPORT VALUES('EZS/LTCA', 'Elazığ Havalimanı', 'Elazığ', 'Elazığ');

INSERT INTO AIRPORT VALUES('ERZ/LTCE', 'Erzurum Havalimanı', 'Erzurum', 'Erzurum');

INSERT INTO AIRPORT VALUES('AOE/LTBY', 'Hasan Polatkan Havalimanı', 'Eskişehir', 'Eskişehir');

INSERT INTO AIRPORT VALUES('GZT/LTAJ', 'Gaziantep Havalimanı', 'Gaziantep', 'Gaziantep');

INSERT INTO AIRPORT VALUES('HTY/LTDA', 'Hatay Havalimanı', 'Hatay', 'Hatay');

INSERT INTO AIRPORT VALUES('ISE/LTFC', 'Isparta Süleyman Demirel Havalimanı', 'Isparta', 'Isparta');

INSERT INTO AIRPORT VALUES('ISL/LTBA', 'Atatürk Havalimanı', 'İstanbul', 'İstanbul');

INSERT INTO AIRPORT VALUES('IST/LTFM', 'İstanbul Havalimanı', 'İstanbul', 'İstanbul');

INSERT INTO AIRPORT VALUES('SAW/LTFJ', 'Sabiha Gökçen Havalimanı', 'İstanbul', 'İstanbul');

INSERT INTO AIRPORT VALUES('ADB/LTBJ', 'Adnan Menderes Havalimanı', 'İzmir', 'İzmir');

INSERT INTO AIRPORT VALUES('KSY/LTCF', 'Kars Harakani Havalimanı', 'Kars', 'Kars');

INSERT INTO AIRPORT VALUES('ASR/LTAU', 'Erkilet Havalimanı', 'Kayseri', 'Kayseri');

INSERT INTO AIRPORT VALUES('KCO/LTBQ', 'Cengiz Topel Havalimanı', 'Kocaeli', 'Kocaeli');

INSERT INTO AIRPORT VALUES('KYA/LTAN', 'Konya Havalimanı', 'Konya', 'Konya');

INSERT INTO AIRPORT VALUES('KZR/LTBZ', 'Zafer Havalimanı', 'Kütahya', 'Kütahya');

INSERT INTO AIRPORT VALUES('MLX/LTAT', 'Malatya Havalimanı', 'Malatya', 'Malatya');

INSERT INTO AIRPORT VALUES('DLM/LTBS', 'Dalaman Havalimanı', 'Muğla', 'Muğla');

INSERT INTO AIRPORT VALUES('BJV/LTFE', 'Milas-Bodrum Havalimanı', 'Muğla', 'Muğla');

INSERT INTO AIRPORT VALUES('NAV/LTAZ', 'Nevşehir Kapadokya Havalimanı', 'Nevşehir', 'Nevşehir');

INSERT INTO AIRPORT VALUES('OGU/LTCB', 'Ordu-Giresun Havalimanı', 'Ordu-Giresun', 'Ordu-Giresun');

INSERT INTO AIRPORT VALUES('SZF/LTFH', 'Samsun Çarşamba Havalimanı', 'Samsun', 'Samsun');

INSERT INTO AIRPORT VALUES('NOP/LTCM', 'Sinop Havalimanı', 'Sinop', 'Sinop');

INSERT INTO AIRPORT VALUES('VAS/LTAR', 'Sivas Nuri Demirağ Havalimanı', 'Sivas', 'Sivas');

INSERT INTO AIRPORT VALUES('GNY/LTCS', 'Şanlıurfa GAP Havalimanı', 'Şanlıurfa', 'Şanlıurfa');

INSERT INTO AIRPORT VALUES('TEQ/LTBU', 'Tekirdağ Çorlu Havalimanı', 'Tekirdağ', 'Tekirdağ');

INSERT INTO AIRPORT VALUES('TZX/LTCG', 'Trabzon Havalimanı', 'Trabzon', 'Trabzon');

INSERT INTO AIRPORT VALUES('USQ/LTBO', 'Uşak Havalimanı', 'Uşak', 'Uşak');

INSERT INTO AIRPORT VALUES('VAN/LTCI', 'Van Ferit Melen Havalimanı', 'Van', 'Van');

INSERT INTO AIRPORT VALUES('ONQ/LTAS', 'Zonguldak Havalimanı', 'Zonguldak', 'Zonguldak');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'ADA/LTAF');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'AYT/LTAI');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'GZP/LTFG');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'EDO/LTFD');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'YEI/LTBR');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'CKZ/LTBH');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'DNZ/LTAY');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'DIY/LTCC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'EZS/LTCA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'ERZ/LTCE');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'AOE/LTBY');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'GZT/LTAJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'HTY/LTDA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'ISE/LTFC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'KSY/LTCF');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'EZS/LTCA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'ERZ/LTCE');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'AOE/LTBY');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'GZT/LTAJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'HTY/LTDA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'ISE/LTFC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'KSY/LTCF');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'OGU/LTCB');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'SZF/LTFH');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'NOP/LTCM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'VAS/LTAR');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'GNY/LTCS');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'TEQ/LTBU');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'TZX/LTCG');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'USQ/LTBO');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'VAN/LTCI');

INSERT INTO CAN\_LAND VALUES('AIRBUS A340', 'ONQ/LTAS');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'AYT/LTAI');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'GZP/LTFG');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'EDO/LTFD');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'YEI/LTBR');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'CKZ/LTBH');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'DNZ/LTAY');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'DIY/LTCC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'EZS/LTCA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'ERZ/LTCE');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'AOE/LTBY');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'GZT/LTAJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'HTY/LTDA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'ISE/LTFC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A321', 'KSY/LTCF');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'ASR/LTAU');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'KCO/LTBQ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'KYA/LTAN');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'KZR/LTBZ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'MLX/LTAT');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'DLM/LTBS');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'BJV/LTFE');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'NAV/LTAZ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'OGU/LTCB');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'SZF/LTFH');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'NOP/LTCM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'VAS/LTAR');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'GNY/LTCS');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'TEQ/LTBU');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'TZX/LTCG');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'USQ/LTBO');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'VAN/LTCI');

INSERT INTO CAN\_LAND VALUES('AIRBUS A320', 'ONQ/LTAS');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'ESB/LTAC');

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INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'TEQ/LTBU');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'TZX/LTCG');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'USQ/LTBO');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'VAN/LTCI');

INSERT INTO CAN\_LAND VALUES('AIRBUS A310', 'ONQ/LTAS');

-- BOEING 737 - BOEING 747 - BOEING 767 - BOEING 777 - BOEING 787

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'ASR/LTAU');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'KCO/LTBQ');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'KYA/LTAN');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'KZR/LTBZ');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'MLX/LTAT');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'DLM/LTBS');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'BJV/LTFE');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'NAV/LTAZ');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'OGU/LTCB');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'SZF/LTFH');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'NOP/LTCM');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'VAS/LTAR');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'GNY/LTCS');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'TEQ/LTBU');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'TZX/LTCG');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'USQ/LTBO');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'VAN/LTCI');

INSERT INTO CAN\_LAND VALUES('BOEING 737', 'ONQ/LTAS');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'ADA/LTAF');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'AYT/LTAI');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'GZP/LTFG');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'EDO/LTFD');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'YEI/LTBR');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'CKZ/LTBH');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'DNZ/LTAY');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'DIY/LTCC');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'EZS/LTCA');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'ERZ/LTCE');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'AOE/LTBY');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'GZT/LTAJ');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'HTY/LTDA');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'ISE/LTFC');

INSERT INTO CAN\_LAND VALUES('BOEING 747', 'KSY/LTCF');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'ASR/LTAU');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'KCO/LTBQ');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'KYA/LTAN');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'KZR/LTBZ');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'MLX/LTAT');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'DLM/LTBS');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'BJV/LTFE');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'NAV/LTAZ');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'OGU/LTCB');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'SZF/LTFH');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'NOP/LTCM');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'VAS/LTAR');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'GNY/LTCS');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'TEQ/LTBU');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'TZX/LTCG');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'USQ/LTBO');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'VAN/LTCI');

INSERT INTO CAN\_LAND VALUES('BOEING 767', 'ONQ/LTAS');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'ADA/LTAF');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'AYT/LTAI');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'GZP/LTFG');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'EDO/LTFD');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'YEI/LTBR');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'CKZ/LTBH');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'DNZ/LTAY');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'DIY/LTCC');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'EZS/LTCA');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'ERZ/LTCE');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'AOE/LTBY');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'GZT/LTAJ');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'HTY/LTDA');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'ISE/LTFC');

INSERT INTO CAN\_LAND VALUES('BOEING 777', 'KSY/LTCF');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'ISL/LTBA');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'IST/LTFM');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'SAW/LTFJ');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'ADB/LTBJ');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'ESB/LTAC');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'ERZ/LTCE');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'AOE/LTBY');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'GZT/LTAJ');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'HTY/LTDA');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'ISE/LTFC');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'KSY/LTCF');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'GNY/LTCS');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'TEQ/LTBU');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'TZX/LTCG');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'USQ/LTBO');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'VAN/LTCI');

INSERT INTO CAN\_LAND VALUES('BOEING 787', 'ONQ/LTAS');

INSERT INTO CUSTOMER VALUES('CST00001', 'Ibrahim Hayrettin YAKUT','PASSPORT1', 'TURKEY','Çiğli/İZMİR', '0536 123 45 67', 'ibrahim@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00002', 'Yeşim Aktaş','PASSPORT2', 'TURKEY','Kumluca/Antalya', '0536 000 12 23', 'yesim@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00003', 'Ceren Atılgan','PASSPORT3', 'TURKEY','Bornova/İZMİR', '0536 000 12 24', 'ceren@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00004', 'Hakan Kara','PASSPORT4', 'TURKEY','Kaş/Antalya', '0536 000 12 25', 'hakan@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00005', 'Isa Tetik','PASSPORT5', 'TURKEY','Selçuklu/KONYA', '0536 000 12 26', 'isa@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00006', 'Vedat Bal','PASSPORT6', 'TURKEY','Sungurlu/ÇORUM', '0536 000 12 27', 'vedat@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00007', 'Pınar Güngör','PASSPORT7', 'TURKEY','Karşıyaka/İZMİR', '0536 000 12 27', 'pinar@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00008', 'Okan AKYOL','PASSPORT8', 'TURKEY','Buca/İZMİR', '0536 000 12 28', 'okan@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00009', 'Ahmet Tartar','PASSPORT9', 'TURKEY','Konak/İZMİR', '0536 000 12 29', 'ahmet@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00010', 'Hamza YILMAZ','PASSPORT10', 'TURKEY','Bayraklı/İZMİR', '0536 000 12 30', 'hamza@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00011', 'Zeynep Derbent','PASSPORT11', 'TURKEY','Bostanlı/İZMİR', '0536 000 12 31', 'zeynep@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00012', 'Mine Bağcı','PASSPORT12', 'TURKEY','Karşıyaka/İZMİR', '535 000 13 10', 'mine@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00013', 'Ikabet Şahin','PASSPORT13', 'TURKEY','Turgutlu/MANİSA', '0535 000 13 20', 'ikabet@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00014', 'Zehra Seven','PASSPORT14', 'TURKEY','Kadıköy/İSTANBUL', '0535 000 12 30', 'zehra@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00015', 'Zeynep Bağcı','PASSPORT15', 'TURKEY','Karşıyaka/İZMİR', '0535 000 12 40', 'zeynepbagci@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00016', 'Burak Çevikarabacı','PASSPORT16', 'TURKEY','Turgutlu/MANİSA', '0535 000 12 50', 'burak@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00017', 'Elif Özünlü','PASSPORT17', 'TURKEY','Turgutlu/MANİSA', '0535 000 15 91', 'elif@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00018', 'Sena Şarbak','PASSPORT18', 'TURKEY','Kadıköy/İSTANBUL', '0535 000 15 34', 'sena@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00019', 'Berkhan Yiğit','PASSPORT19', 'TURKEY','Bandırma/BALIKESİR', '0535 000 15 77', 'berkhan@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00020', 'Ömer Akçalı','PASSPORT20', 'TURKEY','Bafra/SAMSUN', '0535 000 16 78', 'omer@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00021', 'Hande İleri','PASSPORT21', 'TURKEY','Levent/İSTANBUL', '0535 000 16 42', 'hande@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00022', 'Akif Konur','PASSPORT22', 'TURKEY','Bandırma/BALIKESİR', '0535 000 16 36', 'makif@gmail.com');

INSERT INTO CUSTOMER VALUES('CST00023', 'Mirza Şahinkaya','PASSPORT23', 'TURKEY','Karşıyaka/İZMİR', '0535 000 16 24', 'mirza@gmail.com');

INSERT INTO FLIGHT VALUES('FN00001', 'PEGASUS', 'Pazartesi');

INSERT INTO FLIGHT VALUES('FN00002', 'PEGASUS', 'Salı');

INSERT INTO FLIGHT VALUES('FN00003', 'PEGASUS', 'Çarşamba');

INSERT INTO FLIGHT VALUES('FN00004', 'PEGASUS', 'Perşembe');

INSERT INTO FLIGHT VALUES('FN00005', 'PEGASUS', 'Cuma');

INSERT INTO FLIGHT VALUES('FN00006', 'PEGASUS', 'Cumartesi');

INSERT INTO FLIGHT VALUES('FN00007', 'PEGASUS', 'Pazar');

INSERT INTO FLIGHT VALUES('FN00008', 'THY', 'Pazartesi');

INSERT INTO FLIGHT VALUES('FN00009', 'THY', 'Salı');

INSERT INTO FLIGHT VALUES('FN00010', 'THY', 'Çarşamba');

INSERT INTO FLIGHT VALUES('FN00011', 'THY', 'Perşembe');

INSERT INTO FLIGHT VALUES('FN00012', 'THY', 'Cuma');

INSERT INTO FLIGHT VALUES('FN00013', 'THY', 'Cumartesi');

INSERT INTO FLIGHT VALUES('FN00014', 'THY', 'Pazar');

INSERT INTO FLIGHT VALUES('FN00015', 'SUNEXPRESS', 'Pazartesi');

INSERT INTO FLIGHT VALUES('FN00016', 'SUNEXPRESS', 'Salı');

INSERT INTO FLIGHT VALUES('FN00017', 'SUNEXPRESS', 'Çarşamba');

INSERT INTO FLIGHT VALUES('FN00018', 'SUNEXPRESS', 'Perşembe');

INSERT INTO FLIGHT VALUES('FN00019', 'SUNEXPRESS', 'Cuma');

INSERT INTO FLIGHT VALUES('FN00020', 'SUNEXPRESS', 'Cumartesi');

INSERT INTO FLIGHT VALUES('FN00021', 'SUNEXPRESS', 'Pazar');

INSERT INTO FLIGHT VALUES('FN00022', 'ANADOLUJET', 'Pazartesi');

INSERT INTO FLIGHT VALUES('FN00023', 'ANADOLUJET', 'Salı');

INSERT INTO FLIGHT VALUES('FN00024', 'ANADOLUJET', 'Çarşamba');

INSERT INTO FLIGHT VALUES('FN00025', 'ANADOLUJET', 'Perşembe');

INSERT INTO FLIGHT VALUES('FN00026', 'ANADOLUJET', 'Cuma');

INSERT INTO FLIGHT VALUES('FN00027', 'ANADOLUJET', 'Cumartesi');

INSERT INTO FLIGHT VALUES('FN00028', 'ANADOLUJET', 'Pazar');

INSERT INTO FLIGHT VALUES('FN00029', 'ONURAIR', 'Pazartesi');

INSERT INTO FLIGHT VALUES('FN00030', 'ONURAIR', 'Salı');

INSERT INTO FLIGHT VALUES('FN00031', 'ONURAIR', 'Çarşamba');

INSERT INTO FLIGHT VALUES('FN00032', 'ONURAIR', 'Perşembe');

INSERT INTO FLIGHT VALUES('FN00033', 'ONURAIR', 'Cuma');

INSERT INTO FLIGHT VALUES('FN00034', 'ONURAIR', 'Cumartesi');

INSERT INTO FLIGHT VALUES('FN00035', 'ONURAIR', 'Pazar');

-- PEGASUS FIYATLARI

INSERT INTO FARE VALUES('FRN00001', 'FN00001', 200, '15kg');

INSERT INTO FARE VALUES('FRN00002', 'FN00002', 100, '15kg');

INSERT INTO FARE VALUES('FRN00003', 'FN00003', 100, '15kg');

INSERT INTO FARE VALUES('FRN00004', 'FN00004', 100, '15kg');

INSERT INTO FARE VALUES('FRN00005', 'FN00005', 200, '15kg');

INSERT INTO FARE VALUES('FRN00006', 'FN00006', 200, '15kg');

INSERT INTO FARE VALUES('FRN00007', 'FN00007', 200, '15kg');

-- THY FIYATLARI

INSERT INTO FARE VALUES('FRN00008', 'FN00008', 210, '20kg');

INSERT INTO FARE VALUES('FRN00009', 'FN00009', 110, '20kg');

INSERT INTO FARE VALUES('FRN00010', 'FN00010', 110, '20kg');

INSERT INTO FARE VALUES('FRN00011', 'FN00011', 110, '20kg');

INSERT INTO FARE VALUES('FRN00012', 'FN00012', 210, '20kg');

INSERT INTO FARE VALUES('FRN00013', 'FN00013', 210, '20kg');

INSERT INTO FARE VALUES('FRN00014', 'FN00014', 210, '20kg');

-- SUN EXPRESS FIYATLARI

INSERT INTO FARE VALUES('FRN00015', 'FN00015', 220, '14kg');

INSERT INTO FARE VALUES('FRN00016', 'FN00016', 120, '14kg');

INSERT INTO FARE VALUES('FRN00017', 'FN00017', 120, '14kg');

INSERT INTO FARE VALUES('FRN00018', 'FN00018', 120, '14kg');

INSERT INTO FARE VALUES('FRN00019', 'FN00019', 220, '14kg');

INSERT INTO FARE VALUES('FRN00020', 'FN00020', 220, '14kg');

INSERT INTO FARE VALUES('FRN00021', 'FN00021', 220, '14kg');

-- ANADOLU JET FIYATLARI

INSERT INTO FARE VALUES('FRN00022', 'FN00022', 120, '15kg');

INSERT INTO FARE VALUES('FRN00023', 'FN00023', 80, '15kg');

INSERT INTO FARE VALUES('FRN00024', 'FN00024', 80, '15kg');

INSERT INTO FARE VALUES('FRN00025', 'FN00025', 80, '15kg');

INSERT INTO FARE VALUES('FRN00026', 'FN00026', 120, '15kg');

INSERT INTO FARE VALUES('FRN00027', 'FN00027', 120, '15kg');

INSERT INTO FARE VALUES('FRN00028', 'FN00028', 120, '15kg');

-- ONUR AIR FIYATLARI

INSERT INTO FARE VALUES('FRN00029', 'FN00029', 120, '12kg');

INSERT INTO FARE VALUES('FRN00030', 'FN00029', 80, '12kg');

INSERT INTO FARE VALUES('FRN00031', 'FN00029', 80, '12kg');

INSERT INTO FARE VALUES('FRN00032', 'FN00029', 80, '12kg');

INSERT INTO FARE VALUES('FRN00033', 'FN00029', 120, '12kg');

INSERT INTO FARE VALUES('FRN00034', 'FN00029', 120, '12kg');

INSERT INTO FARE VALUES('FRN00035', 'FN00029', 120, '12kg');

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00001', 'ISL/LTBA', '16:00', 'AYT/LTAI', '18:00', 1000);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00001', 'AYT/LTAI', '19:00', 'HTY/LTDA', '21:00', 800);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00002', 'ADB/LTBJ', '09:00', 'ESB/LTAC', '11:00', 1100);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00002', 'ESB/LTAC', '11:30', 'ERZ/LTCE', '13:00', 850);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00003', 'DIY/LTCC', '15:00', 'TEQ/LTBU', '17:30', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00004', 'ADA/LTAF', '20:10', 'EDO/LTFD', '21:30', 700);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00005', 'KCO/LTBQ', '10:00', 'GZP/LTFG', '12:40', 100);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00006', 'SAW/LTFJ', '09:00', 'KYA/LTAN', '11:20', 750);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00006', 'KYA/LTAN', '12:00', 'GNY/LTCS', '13.30', 500);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00007', 'SZF/LTFH', '14:15', 'BJV/LTFE', '16:00', 600);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00008', 'ADB/LTBJ', '10:40', 'ASR/LTAU', '12:00', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00008', 'ASR/LTAU', '13:00', 'ERZ/LTCE', '14:50', 700);

INSERT INTO FLIGHT\_LEG VALUES('LEG3', 'FN00008', 'ERZ/LTCE', '15:30', 'NOP/LTCM', '17:00', 850);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00009', 'VAS/LTAR', '20:00', 'USQ/LTBO', '21:30', 850);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00010', 'VAN/LTCI', '16:00', 'KZR/LTBZ', '18:00', 1100);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00011', 'DIY/LTCC', '15:00', 'TEQ/LTBU', '17:30', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00012', 'AYT/LTAI', '14:40', 'KSY/LTCF', '16:10', 1000);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00012', 'KSY/LTCF', '16:50', 'OGU/LTCB', '17:50', 950);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00013', 'MLX/LTAT', '08:30', 'TEQ/LTBU', '10:40', 1150);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00014', 'CKZ/LTBH', '13:10', 'NAV/LTAZ', '15:00', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00015', 'DNZ/LTAY', '16:10', 'KCO/LTBQ', '17:30', 750);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00016', 'VAS/LTAR', '22:00', 'IST/LTFM', '23:40', 1000);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00017', 'AOE/LTBY', '17:20', 'ISL/LTBA', '18:50', 800);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00017', 'ISL/LTBA', '19:40', 'ONQ/LTAS', '20:30', 500);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00018', 'IST/LTFM', '16:00', 'SZF/LTFH', '17:00', 650);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00018', 'SZF/LTFH', '17:40', 'ERZ/LTCE', '18:00', 600);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00019', 'ISE/LTFC', '20:40', 'MLX/LTAT', '22:00', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00020', 'EDO/LTFD', '11:00', 'VAN/LTCI', '14:00', 1300);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00021', 'GZP/LTFG', '08:40', 'ADB/LTBJ', '10:00', 700);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00022', 'YEI/LTBR', '16:00', 'HTY/LTDA', '18:40', 1150);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00023', 'DLM/LTBS', '10:00', 'ESB/LTAC', '12:00', 800);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00023', 'ESB/LTAC', '12:50', 'TZX/LTCG', '14:20', 750);

INSERT INTO FLIGHT\_LEG VALUES('LEG3', 'FN00023', 'TZX/LTCG', '15:20', 'KSY/LTCF', '16:50', 650);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00024', 'EZS/LTCA', '15:00', 'ISE/LTFC', '17:00', 750);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00025', 'GNY/LTCS', '14:30', 'ADB/LTBJ', '17:00', 1100);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00026', 'ISL/LTBA', '20:20', 'BJV/LTFE', '21:30', 850);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00027', 'SAW/LTFJ', '11:00', 'ADB/LTBJ', '13:00', 700);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00027', 'ADB/LTBJ', '14:00', 'ISE/LTFC', '15:00', 550);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00028', 'ONQ/LTAS', '19:00', 'GNY/LTCS', '21:00', 1200);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00029', 'USQ/LTBO', '09:40', 'IST/LTFM', '11:00', 800);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00030', 'TEQ/LTBU', '08:00', 'ASR/LTAU', '11:00', 1200);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00031', 'ISL/LTBA', '12:10', 'KYA/LTAN', '14:50', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00031', 'KYA/LTAN', '15:40', 'GNY/LTCS', '17:00', 650);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00032', 'IST/LTFM', '13:00', 'ISE/LTFC', '15:20', 900);

INSERT INTO FLIGHT\_LEG VALUES('LEG2', 'FN00032', 'ISE/LTFC', '16:00', 'ADA/LTAF', '16:50', 600);

INSERT INTO FLIGHT\_LEG VALUES('LEG3', 'FN00032', 'ADA/LTAF', '18:00', 'VAN/LTCI', '19:50', 800);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00033', 'OGU/LTCB', '12:30', 'DNZ/LTAY', '14:40', 1000);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00034', 'EZS/LTCA', '16:00', 'SAW/LTFJ', '19:00', 1200);

INSERT INTO FLIGHT\_LEG VALUES('LEG1', 'FN00035', 'ASR/LTAU', '17:40', 'CKZ/LTBH', '19:50', 1000);

INSERT INTO LEG\_INSTANCE VALUES('FN00001', 'LEG1', '2021-03-12', 215, 'APL000006', 'ISL/LTBA', '16:10', 'AYT/LTAI', '18:10');

INSERT INTO LEG\_INSTANCE VALUES('FN00001', 'LEG2', '2021-03-12', 215, 'APL000006', 'AYT/LTAI', '19:00', 'HTY/LTDA', '20:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00002', 'LEG1', '2021-04-01', 467, 'APL000007', 'ADB/LTBJ', '09:00', 'ESB/LTAC', '11:20');

INSERT INTO LEG\_INSTANCE VALUES('FN00002', 'LEG2', '2021-04-01', 467, 'APL000007', 'ESB/LTAC', '11:50', 'ERZ/LTCE', '13:10');

INSERT INTO LEG\_INSTANCE VALUES('FN00003', 'LEG1', '2021-04-24', 301, 'APL000015', 'DIY/LTCC', '15:00', 'TEQ/LTBU', '17:30');

INSERT INTO LEG\_INSTANCE VALUES('FN00004', 'LEG1', '2021-03-01', 300, 'APL000030', 'ADA/LTAF', '20:30', 'EDO/LTFD', '21:40');

INSERT INTO LEG\_INSTANCE VALUES('FN00005', 'LEG1', '2021-03-28', 185, 'APL000037', 'KCO/LTBQ', '10:15', 'GZP/LTFG', '12:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00006', 'LEG1', '2021-04-30', 187, 'APL000049', 'SAW/LTFJ', '09:00', 'KYA/LTAN', '11:20');

INSERT INTO LEG\_INSTANCE VALUES('FN00006', 'LEG2', '2021-04-30', 187, 'APL000049', 'KYA/LTAN', '12:00', 'GNY/LTCS', '13:30');

INSERT INTO LEG\_INSTANCE VALUES('FN00007', 'LEG1', '2021-03-18', 300, 'APL000025', 'SZF/LTFH', '14:15', 'BJV/LTFE', '16:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00008', 'LEG1', '2021-03-17', 215, 'APL000001', 'ADB/LTBJ', '11:00', 'ASR/LTAU', '12:15');

INSERT INTO LEG\_INSTANCE VALUES('FN00008', 'LEG2', '2021-03-17', 215, 'APL000001', 'ASR/LTAU', '13:10', 'ERZ/LTCE', '15:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00008', 'LEG3', '2021-03-17', 215, 'APL000001', 'ERZ/LTCE', '15:40', 'NOP/LTCM', '17:20');

INSERT INTO LEG\_INSTANCE VALUES('FN00009', 'LEG1', '2021-04-04', 467, 'APL000009', 'VAS/LTAR', '20:00', 'USQ/LTBO', '21:30');

INSERT INTO LEG\_INSTANCE VALUES('FN00010', 'LEG1', '2021-04-03', 375, 'APL000014', 'VAN/LTCI', '16:00', 'KZR/LTBZ', '18:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00011', 'LEG1', '2021-05-02', 301, 'APL000016', 'DIY/LTCC', '15:10', 'TEQ/LTBU', '17:45');

INSERT INTO LEG\_INSTANCE VALUES('FN00012', 'LEG1', '2021-03-17', 187, 'APL000050', 'AYT/LTAI', '14:40', 'KSY/LTCF', '16:10');

INSERT INTO LEG\_INSTANCE VALUES('FN00012', 'LEG2', '2021-03-17', 186, 'APL000044', 'KSY/LTCF', '16:50', 'OGU/LTCB', '17:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00013', 'LEG1', '2021-04-06', 185, 'APL000038', 'MLX/LTAT', '08:30', 'TEQ/LTBU', '10:40');

INSERT INTO LEG\_INSTANCE VALUES('FN00014', 'LEG1', '2021-04-07', 330, 'APL000021', 'CKZ/LTBH', '13:20', 'NAV/LTAZ', '15:15');

INSERT INTO LEG\_INSTANCE VALUES('FN00015', 'LEG1', '2021-03-12', 215, 'APL000003', 'DNZ/LTAY', '16:10', 'KCO/LTBQ', '17:30');

INSERT INTO LEG\_INSTANCE VALUES('FN00016', 'LEG1', '2021-03-05', 467, 'APL000008', 'VAS/LTAR', '22:30', 'IST/LTFM', '23:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00017', 'LEG1', '2021-03-19', 187, 'APL000051', 'AOE/LTBY', '17:20', 'ISL/LTBA', '18:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00017', 'LEG2', '2021-03-19', 187, 'APL000051', 'ISL/LTBA', '19:50', 'ONQ/LTAS', '20:45');

INSERT INTO LEG\_INSTANCE VALUES('FN00018', 'LEG1', '2021-03-20', 239, 'APL000033', 'IST/LTFM', '16:00', 'SZF/LTFH', '17:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00018', 'LEG2', '2021-03-20', 239, 'APL000033', 'SZF/LTFH', '17:40', 'ERZ/LTCE', '18:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00019', 'LEG1', '2021-04-25', 330, 'APL000023', 'ISE/LTFC', '21:00', 'MLX/LTAT', '22:15');

INSERT INTO LEG\_INSTANCE VALUES('FN00020', 'LEG1', '2021-05-03', 301, 'APL000018', 'EDO/LTFD', '11:00', 'VAN/LTCI', '14:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00021', 'LEG1', '2021-05-10', 185, 'APL000039', 'GZP/LTFG', '08:40', 'ADB/LTBJ', '10:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00022', 'LEG1', '2021-04-17', 187, 'APL000052', 'YEI/LTBR', '16:00', 'HTY/LTDA', '18:40');

INSERT INTO LEG\_INSTANCE VALUES('FN00023', 'LEG1', '2021-03-22', 215, 'APL000004', 'DLM/LTBS', '10:00', 'ESB/LTAC', '12:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00023', 'LEG2', '2021-03-22', 215, 'APL000004', 'ESB/LTAC', '12:50', 'TZX/LTCG', '14:20');

INSERT INTO LEG\_INSTANCE VALUES('FN00023', 'LEG3', '2021-03-22', 215, 'APL000004', 'TZX/LTCG', '15:20', 'KSY/LTCF', '16:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00024', 'LEG1', '2021-04-11', 186, 'APL000046', 'EZS/LTCA', '15:30', 'ISE/LTFC', '17:40');

INSERT INTO LEG\_INSTANCE VALUES('FN00025', 'LEG1', '2021-04-13', 467, 'APL000011', 'GNY/LTCS', '14:30', 'ADB/LTBJ', '17:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00026', 'LEG1', '2021-03-25', 185, 'APL000040', 'ISL/LTBA', '20:20', 'BJV/LTFE', '21:30');

INSERT INTO LEG\_INSTANCE VALUES('FN00027', 'LEG1', '2021-03-29', 239, 'APL000034', 'SAW/LTFJ', '11:00', 'ADB/LTBJ', '13:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00027', 'LEG2', '2021-03-29', 239, 'APL000034', 'ADB/LTBJ', '14:00', 'ISE/LTFC', '15:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00028', 'LEG1', '2021-05-16', 330, 'APL000022', 'ONQ/LTAS', '19:20', 'GNY/LTCS', '21:20');

INSERT INTO LEG\_INSTANCE VALUES('FN00029', 'LEG1', '2021-04-16', 187, 'APL000053', 'USQ/LTBO', '09:40', 'IST/LTFM', '11:10');

INSERT INTO LEG\_INSTANCE VALUES('FN00030', 'LEG1', '2021-03-10', 301, 'APL000019', 'TEQ/LTBU', '08:10', 'ASR/LTAU', '11:05');

INSERT INTO LEG\_INSTANCE VALUES('FN00031', 'LEG1', '2021-04-27', 330, 'APL000024', 'ISL/LTBA', '12:10', 'KYA/LTAN', '14:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00031', 'LEG2', '2021-03-28', 330, 'APL000024', 'KYA/LTAN', '15:50', 'GNY/LTCS', '17:10');

INSERT INTO LEG\_INSTANCE VALUES('FN00032', 'LEG1', '2021-04-06', 300, 'APL000029', 'IST/LTFM', '13:10', 'ISE/LTFC', '15:30');

INSERT INTO LEG\_INSTANCE VALUES('FN00032', 'LEG2', '2021-04-06', 300, 'APL000029', 'ISE/LTFC', '16:00', 'ADA/LTAF', '16:50');

INSERT INTO LEG\_INSTANCE VALUES('FN00032', 'LEG3', '2021-04-06', 300, 'APL000029', 'ADA/LTAF', '18:00', 'VAN/LTCI', '20:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00033', 'LEG1', '2021-05-11', 239, 'APL000035', 'OGU/LTCB', '12:30', 'DNZ/LTAY', '14:40');

INSERT INTO LEG\_INSTANCE VALUES('FN00034', 'LEG1', '2021-03-26', 186, 'APL000047', 'EZS/LTCA', '16:00', 'SAW/LTFJ', '19:00');

INSERT INTO LEG\_INSTANCE VALUES('FN00035', 'LEG1', '2021-03-14', 185, 'APL000041', 'ASR/LTAU', '17:40', 'CKZ/LTBH', '19:50');

INSERT INTO FFC VALUES('CST00001','PEGASUS',1850);

INSERT INTO FFC VALUES('CST00001','THY',2900);

INSERT INTO FFC VALUES('CST00001','ANADOLUJET',500);

INSERT INTO FFC VALUES('CST00002','PEGASUS',2850);

INSERT INTO FFC VALUES('CST00002','THY',1900);

INSERT INTO FFC VALUES('CST00002','ANADOLUJET',100);

INSERT INTO FFC VALUES('CST00003','PEGASUS',250);

INSERT INTO FFC VALUES('CST00003','THY',100);

INSERT INTO FFC VALUES('CST00003','ANADOLUJET',3300);

INSERT INTO FFC VALUES('CST00004','PEGASUS',2350);

INSERT INTO FFC VALUES('CST00004','THY',4100);

INSERT INTO FFC VALUES('CST00004','ANADOLUJET',1300);

INSERT INTO FFC VALUES('CST00005','PEGASUS',5350);

INSERT INTO FFC VALUES('CST00005','THY',1100);

INSERT INTO FFC VALUES('CST00005','ANADOLUJET',1000);

-- delete from segment;

INSERT INTO SEGMENT VALUES ('COPPER',2000,2500,'PEGASUS');

INSERT INTO SEGMENT VALUES ('SILVER',2500,3000,'PEGASUS');

INSERT INTO SEGMENT VALUES ('GOLD',3000,3500,'PEGASUS');

INSERT INTO SEGMENT VALUES ('PLATIN',3500,10000,'PEGASUS');

INSERT INTO SEGMENT VALUES ('CLASS 4',3000,3500,'THY');

INSERT INTO SEGMENT VALUES ('CLASS 3',3500,4000,'THY');

INSERT INTO SEGMENT VALUES ('CLASS 2',4000,4500,'THY');

INSERT INTO SEGMENT VALUES ('CLASS 1',4500,10000,'THY');

INSERT INTO SEGMENT VALUES ('SERÇE',2500,3000,'ANADOLUJET');

INSERT INTO SEGMENT VALUES ('LEYLEK',3000,3500,'ANADOLUJET');

INSERT INTO SEGMENT VALUES ('KUZGUN',3500,4000,'ANADOLUJET');

INSERT INTO SEGMENT VALUES ('KARTAL',4500,10000,'ANADOLUJET');

INSERT INTO SEGMENT VALUES ('D CLASS',2000,2500,'ONURAIR');

INSERT INTO SEGMENT VALUES ('C CLASS',2500,3000,'ONURAIR');

INSERT INTO SEGMENT VALUES ('B CLASS',3000,3500,'ONURAIR');

INSERT INTO SEGMENT VALUES ('A CLASS',3500,10000,'ONURAIR');

INSERT INTO SEGMENT VALUES ('CLASSIC',2000,3000,'SUNEXPRESS');

INSERT INTO SEGMENT VALUES ('CLASSIC PLUS',3000,4000,'SUNEXPRESS');

INSERT INTO SEGMENT VALUES ('ELITE',4000,5000,'SUNEXPRESS');

INSERT INTO SEGMENT VALUES ('ELITE PLUS',5000,10000,'SUNEXPRESS');

INSERT INTO RESERVATION VALUES('CST00001', 'FN00001', 'LEG1', '2021-03-12', '30F', 0);

INSERT INTO RESERVATION VALUES('CST00002', 'FN00001', 'LEG1', '2021-03-12', '11A', 0);

INSERT INTO RESERVATION VALUES('CST00003', 'FN00001', 'LEG1', '2021-03-12', '12E', 0);

INSERT INTO RESERVATION VALUES('CST00004', 'FN00001', 'LEG1', '2021-03-12', '12A', 0);

INSERT INTO RESERVATION VALUES('CST00005', 'FN00001', 'LEG1', '2021-03-12', '20D', 0);

INSERT INTO RESERVATION VALUES('CST00006', 'FN00001', 'LEG1', '2021-03-12', '10B', 0);

INSERT INTO RESERVATION VALUES('CST00007', 'FN00001', 'LEG1', '2021-03-12', '12F', 0);

INSERT INTO RESERVATION VALUES('CST00008', 'FN00001', 'LEG1', '2021-03-12', '17D', 0);

INSERT INTO RESERVATION VALUES('CST00009', 'FN00001', 'LEG1', '2021-03-12', '23A', 0);

INSERT INTO RESERVATION VALUES('CST00010', 'FN00001', 'LEG1', '2021-03-12', '30B', 0);

INSERT INTO RESERVATION VALUES('CST00011', 'FN00001', 'LEG1', '2021-03-12', '24C', 0);

INSERT INTO RESERVATION VALUES('CST00012', 'FN00001', 'LEG1', '2021-03-12', '19D', 0);

INSERT INTO RESERVATION VALUES('CST00013', 'FN00001', 'LEG1', '2021-03-12', '26A', 0);

INSERT INTO RESERVATION VALUES('CST00014', 'FN00001', 'LEG1', '2021-03-12', '19B', 0);

INSERT INTO RESERVATION VALUES('CST00015', 'FN00001', 'LEG1', '2021-03-12', '17C', 0);

INSERT INTO RESERVATION VALUES('CST00016', 'FN00001', 'LEG1', '2021-03-12', '28F', 0);

INSERT INTO RESERVATION VALUES('CST00017', 'FN00001', 'LEG1', '2021-03-12', '32E', 0);

INSERT INTO RESERVATION VALUES('CST00018', 'FN00001', 'LEG1', '2021-03-12', '31A', 0);

INSERT INTO RESERVATION VALUES('CST00019', 'FN00001', 'LEG1', '2021-03-12', '40B', 0);

INSERT INTO RESERVATION VALUES('CST00020', 'FN00001', 'LEG1', '2021-03-12', '34C', 0);

INSERT INTO RESERVATION VALUES('CST00021', 'FN00001', 'LEG1', '2021-03-12', '37D', 0);

INSERT INTO RESERVATION VALUES('CST00022', 'FN00001', 'LEG1', '2021-03-12', '22A', 0);

INSERT INTO RESERVATION VALUES('CST00023', 'FN00001', 'LEG1', '2021-03-12', '18F', 0);

INSERT INTO RESERVATION VALUES('CST00001', 'FN00002', 'LEG1', '2021-04-01', '32F', 0);

INSERT INTO RESERVATION VALUES('CST00002', 'FN00002', 'LEG1', '2021-04-01', '10A', 0);

INSERT INTO RESERVATION VALUES('CST00003', 'FN00002', 'LEG1', '2021-04-01', '13E', 0);

INSERT INTO RESERVATION VALUES('CST00004', 'FN00002', 'LEG1', '2021-04-01', '15A', 0);

INSERT INTO RESERVATION VALUES('CST00005', 'FN00002', 'LEG1', '2021-04-01', '27D', 0);

INSERT INTO RESERVATION VALUES('CST00006', 'FN00002', 'LEG1', '2021-04-01', '18B', 0);

INSERT INTO RESERVATION VALUES('CST00007', 'FN00002', 'LEG1', '2021-04-01', '11F', 0);

INSERT INTO RESERVATION VALUES('CST00008', 'FN00002', 'LEG1', '2021-04-01', '21D', 0);

INSERT INTO RESERVATION VALUES('CST00009', 'FN00002', 'LEG1', '2021-04-01', '29A', 0);

INSERT INTO RESERVATION VALUES('CST00010', 'FN00002', 'LEG1', '2021-04-01', '35B', 0);

INSERT INTO RESERVATION VALUES('CST00011', 'FN00002', 'LEG1', '2021-04-01', '24C', 0);

INSERT INTO RESERVATION VALUES('CST00012', 'FN00002', 'LEG1', '2021-04-01', '15D', 0);

INSERT INTO RESERVATION VALUES('CST00013', 'FN00003', 'LEG1', '2021-04-24', '26F', 0);

INSERT INTO RESERVATION VALUES('CST00014', 'FN00003', 'LEG1', '2021-04-24', '19C', 0);

INSERT INTO RESERVATION VALUES('CST00015', 'FN00003', 'LEG1', '2021-04-24', '17A', 0);

INSERT INTO RESERVATION VALUES('CST00016', 'FN00003', 'LEG1', '2021-04-24', '28D', 0);

INSERT INTO RESERVATION VALUES('CST00017', 'FN00003', 'LEG1', '2021-04-24', '32F', 0);

INSERT INTO RESERVATION VALUES('CST00018', 'FN00003', 'LEG1', '2021-04-24', '31B', 0);

INSERT INTO RESERVATION VALUES('CST00019', 'FN00003', 'LEG1', '2021-04-24', '40A', 0);

INSERT INTO RESERVATION VALUES('CST00020', 'FN00003', 'LEG1', '2021-04-24', '34B', 0);

INSERT INTO RESERVATION VALUES('CST00021', 'FN00003', 'LEG1', '2021-04-24', '37C', 0);

INSERT INTO RESERVATION VALUES('CST00022', 'FN00003', 'LEG1', '2021-04-24', '22D', 0);

INSERT INTO RESERVATION VALUES('CST00023', 'FN00003', 'LEG1', '2021-04-24', '18B', 0);

**3. Write down 5 triggers. Triggers should be meaningful.**

**Trigger1:**

delimiter $$

CREATE TRIGGER checkDepAirportOnUpdate BEFORE UPDATE ON leg\_instance

-- CREATE TRIGGER checkDepAirportOnInsert BEFORE INSERT ON leg\_instance

FOR EACH ROW

BEGIN

declare canland1 integer;

declare canland2 integer;

set canland1:= (select count(\*) from can\_land ,airplane\_type,airplane

where

airplane\_type.Airplane\_type\_name=airplane.Airplane\_type

and can\_land.Airplane\_type\_name=airplane\_type.Airplane\_type\_name

and airplane.Airplane\_code= NEW.Airplane\_code

and can\_land.Airport\_code=NEW.Departure\_airport\_code );

set canland2:= (select count(\*) from can\_land ,airplane\_type,airplane

where

airplane\_type.Airplane\_type\_name=airplane.Airplane\_type

and can\_land.Airplane\_type\_name=airplane\_type.Airplane\_type\_name

and airplane.Airplane\_code=NEW.Airplane\_code

and can\_land.Airport\_code=NEW.Arrival\_airport\_code);

IF canland1=0 or canland2=0 THEN

signal sqlstate '45000' set message\_text = 'HATA: Uçak belirtilen havalimanlarına inemez!!';

END IF;

END$$

delimiter ;

**Trigger 2:**

delimiter $$

CREATE TRIGGER setSeatOnInsert BEFORE INSERT ON leg\_instance

FOR EACH ROW

BEGIN

declare seatNumber integer;

set seatNumber:= (select airplane.Total\_number\_of\_seats from airplane where airplane.Airplane\_code=NEW.Airplane\_code );

set NEW.Number\_of\_available\_seats=seatNumber;

END$$

delimiter ;

**Trigger 3:**

delimiter $$

CREATE TRIGGER decreaseSeats BEFORE INSERT ON reservation

FOR EACH ROW

BEGIN

declare seatCount integer;

set seatCount:= (

select leg\_instance.Number\_of\_available\_seats from leg\_instance

where leg\_instance.Flight\_number=NEW.Flight\_number

and leg\_instance.Leg\_number=NEW.Flight\_leg\_number

and leg\_instance.Date=NEW.Date

);

if seatCount>0 then

UPDATE leg\_instance SET Number\_of\_available\_seats = (seatCount-1)

WHERE (Flight\_number = NEW.Flight\_number)

and (Leg\_number = NEW.Flight\_leg\_number)

and (Date = NEW.Date);

end if;

if seatCount<1 then

signal sqlstate '45000' set message\_text = 'HATA: Uçakta rezervasyon yapılacak koltuk kalmadı!!';

end if;

END$$

delimiter ;

**Trigger 4:**

delimiter $$

CREATE TRIGGER checkSeatReservation BEFORE INSERT ON reservation

FOR EACH ROW

BEGIN

declare seatCount integer;

set seatCount:= (

select count(\*)

from reservation

where reservation.Seat\_number=NEW.Seat\_number

and reservation.Flight\_number=NEW.Flight\_number

and reservation.Flight\_leg\_number=NEW.Flight\_leg\_number

and reservation.Date =NEW.Date

);

if seatCount>0 then

signal sqlstate '45000' set message\_text = 'HATA: Aynı koltuğa birden fazla defa rezervasyon yapılamaz!';

end if;

END$$

delimiter ;

**Trigger 5:**

delimiter $$

CREATE TRIGGER addFFC AFTER UPDATE ON reservation

FOR EACH ROW

BEGIN

declare millage integer;

declare checked\_airline\_code varchar(20);

declare ffcCount integer;

if NEW.Checked\_in=1 and OLD.Checked\_in=0 then

set millage:= (

select flight\_leg.Millage from flight\_leg

where flight\_leg.Flight\_number = NEW.Flight\_number

and flight\_leg.Leg\_number = NEW.Flight\_leg\_number

);

set checked\_airline\_code :=(

select flight.Airline\_code from flight

where flight.Flight\_number = NEW.Flight\_number

);

set ffcCount:=(

select count(\*) from ffc where ffc.Customer\_id=new.Customer\_id and ffc.Airline\_code=checked\_airline\_code

);

if ffcCount=0 then

insert into ffc values(new.Customer\_id,checked\_airline\_code,0);

end if;

UPDATE ffc SET Total\_millage =Total\_millage+millage WHERE (Customer\_id= new.Customer\_id) and (Airline\_code = checked\_airline\_code);

end if;

if NEW.Checked\_in=0 and OLD.Checked\_in=1 then

set millage:= (

select flight\_leg.Millage from flight\_leg

where flight\_leg.Flight\_number = NEW.Flight\_number

and flight\_leg.Leg\_number = NEW.Flight\_leg\_number

);

set checked\_airline\_code :=(

select flight.Airline\_code from flight

where flight.Flight\_number = NEW.Flight\_number

);

set ffcCount:=(

select count(\*) from ffc where ffc.Customer\_id=new.Customer\_id and ffc.Airline\_code=checked\_airline\_code

);

if ffcCount=0 then

insert into ffc values(new.Customer\_id,checked\_airline\_code,0);

end if;

UPDATE ffc SET Total\_millage =Total\_millage-millage WHERE (Customer\_id= new.Customer\_id) and (Airline\_code = checked\_airline\_code);

end if;

END$$

delimiter ;

**4. Write down 5 check constraints. Check constraints should be meaningful.**

**1)** ALTER TABLE flight\_leg ADD CONSTRAINT CHK\_Airports

CHECK (Departure\_airport\_code <> Arrival\_airport\_code);

**2)** ALTER TABLE FARE Add CONSTRAINT CK\_Amount CHECK (Amount>=0);

**3)** ALTER TABLE FLIGHT ADD CONSTRAINT CHK\_Weekdays

CHECK (Weekdays IN ('Pazartesi','Salı','Çarşamba','Perşembe','Cuma','Cumartesi','Pazar'));

**4)** ALTER TABLE LEG\_INSTANCE ADD CONSTRAINT CHK\_Times

CHECK (Arrival\_time>Departure\_time);

**5)** ALTER TABLE AIRPLANE\_TYPE Add CONSTRAINT CK\_SeatCount

CHECK (Max\_seats between 0 and 500);

**5. Write down the following SQL statements:**

**a. Write sample INSERT, DELETE and UPDATE statements for 5 of the tables you choose.**

INSERT INTO AIRPORT VALUES('USK/LUSK', 'Uşak Merkez Havalimanı', 'Uşak', 'Uşak');

INSERT INTO CAN\_LAND VALUES('AIRBUS A330', 'USK/LUSK');

INSERT INTO CUSTOMER VALUES('CST00100', 'Fatma Çakar','PASS100', 'TURKEY','Turgutlu/Manisa', '0535 000 10 00', 'fatma@gmail.com');

INSERT INTO SEGMENT VALUES ('PLATIN D',10000,20000,'PEGASUS');

INSERT INTO SEGMENT VALUES ('PLATIN C',20000,30000,'PEGASUS');

INSERT INTO SEGMENT VALUES ('PLATIN B',30000,40000,'PEGASUS');

INSERT INTO SEGMENT VALUES ('PLATIN A',40000,100000,'PEGASUS');

INSERT INTO RESERVATION VALUES('CST00100', 'FN00001', 'LEG1', '2021-03-12', '26F', 0);

\*UPDATE customer SET Customer\_phone = '0535 000 12 39'

WHERE (`Customer\_id` = 'CST00014');

\*UPDATE segment SET Segment\_name = 'TURNA'

WHERE (Segment\_name = 'SERÇE')

and (Airline\_code = 'ANADOLUJET');

\*UPDATE segment SET Millage\_max = '3900'

WHERE (Segment\_name = 'B CLASS') and (Airline\_code = 'ONURAIR');

\*UPDATE segment SET Millage\_min = '3900'

WHERE (Segment\_name = 'A CLASS') and (Airline\_code = 'ONURAIR');

\*UPDATE flight\_leg

SET Scheduled\_departure\_time = '09:30',

Scheduled\_arrival\_time = '11:50'

WHERE (Leg\_number = 'LEG1')

and (Flight\_number = 'FN00006');

\*DELETE FROM reservation

WHERE (Customer\_id = 'CST00023')

and (Flight\_number = 'FN00003')

and (Flight\_leg\_number = 'LEG1')

and (Seat\_number = '18B')

and (Checked\_in = 0);

\*DELETE FROM customer WHERE (

`Customer\_id` = 'CST00028'

AND NOT EXISTS (

select reservation.\* from reservation

where reservation.Customer\_id=customer.customer\_id

)

);

**b. Write 10 SELECT statements for the database you have implemented.**

**i. 3 of them should use minimum 2 tables.**

-- -------------------------------------------------------------------------

-- 2.1

-- 15 dkdan fazla rötar yapmış uçuşlar

-- -------------------------------------------------------------------------

SELECT

leg\_instance.Flight\_number,

leg\_instance.Leg\_number,

flight\_leg.Scheduled\_departure\_time,

leg\_instance.Departure\_time,

TIMEDIFF(leg\_instance.Departure\_time, flight\_leg.Scheduled\_departure\_time)

FROM leg\_instance,flight\_leg

WHERE leg\_instance.Leg\_number = flight\_leg.Leg\_number

AND leg\_instance.Flight\_number = flight\_leg.Flight\_number

AND TIMEDIFF(leg\_instance.Departure\_time, flight\_leg.Scheduled\_departure\_time)>'00:15:00' ;

-- -------------------------------------------------------------------------

-- 2.2

-- Airplane typeları company bilgileriyle beraber listeler

-- -------------------------------------------------------------------------

SELECT

apt.Airplane\_type\_name,

apt.Company\_code,

co.Company\_name,

apt.Max\_seats

FROM airplane\_type apt, company co

WHERE co.Company\_code=apt.Company\_code

ORDER BY apt.Company\_code, apt.Airplane\_type\_name ;

-- -------------------------------------------------------------------------

-- 2.3

-- Hava yolları firmalarını listeler

-- -------------------------------------------------------------------------

SELECT

airline.Airline\_code,

airline.Company\_code,

company.Company\_name

FROM airline,company

WHERE airline.Company\_code=company.Company\_code;

**ii. 4 of them should use minimum 3 tables.**

-- -------------------------------------------------------------------------

-- 3.1

-- FFC Kayıtlarının en çok olduğu havayolları

-- bu sayede chek in yapılmış uçuşların büyük çoğunluğu hangi hava yolu firmasında,görünebilir.

-- -------------------------------------------------------------------------

SELECT

ffc.Airline\_code,

company.Company\_name,

SUM(ffc.Total\_millage) TotalMillage

FROM ffc, airline,company

WHERE ffc.Airline\_code=airline.Airline\_code

AND airline.Company\_code=company.Company\_code

GROUP BY ffc.Airline\_code,company.Company\_name

ORDER BY TotalMillage ASC;

-- -------------------------------------------------------------------------

-- 3.2

-- uçuşlara göre toplam bilet fiyatları en fazla olan airlinelar

-- -------------------------------------------------------------------------

SELECT

fare.Amount ,

fare.Flight\_number,

airline.Airline\_code,

SUM(fare.Amount)

FROM fare,flight,airline

WHERE fare.Flight\_number = flight.Flight\_number

AND flight.Airline\_code= airline.Airline\_code

GROUP BY airline.Airline\_code

ORDER BY SUM(fare.Amount) DESC;

-- -------------------------------------------------------------------------

-- 3.3

-- Uçuşların doluluk oranları

-- -------------------------------------------------------------------------

SELECT

leg\_instance.Flight\_number,

leg\_instance.Leg\_number,

leg\_instance.Number\_of\_available\_seats,

airplane.Total\_number\_of\_seats,

airplane.Total\_number\_of\_seats - leg\_instance.Number\_of\_available\_seats AS 'Dolu Koltuk Sayısı'

FROM airplane,leg\_instance

WHERE airplane.Airplane\_code = leg\_instance.Airplane\_code

ORDER BY airplane.Total\_number\_of\_seats - leg\_instance.Number\_of\_available\_seats;

-- -------------------------------------------------------------------------

-- 3.4 reservasyon yaptırmış customerlerin hangi airline ile hangi gün uçtuklarını listeler

--

-- -------------------------------------------------------------------------

select

customer.Customer\_id,

customer.Customer\_name,

reservation.\*,

flight.Airline\_code,

flight.Weekdays

from reservation,customer, flight

where reservation.Customer\_id=customer.Customer\_id

and flight.Flight\_number=reservation.Flight\_number

order by customer.Customer\_id asc;

iii. 3 of them should use minimum 4 tables.

-- -------------------------------------------------------------------------

-- 4.1

-- Bütün uçuşları bu uçuşların fiyatlarını, hangi günler ve hangi havayolu firması ile yapıldığını listeler

-- -------------------------------------------------------------------------

SELECT

fare.Fare\_code,

fare.Flight\_number,

fare.Amount,

fare.Restrictions,

flight.Airline\_code,

flight.Weekdays,

company.Company\_name

FROM fare,flight,airline,company

WHERE fare.Flight\_number=flight.Flight\_number

AND flight.Airline\_code=airline.Airline\_code

AND airline.Company\_code=company.Company\_code;

-- -------------------------------------------------------------------------

-- 4.2

-- planlanan vakitte kalkış yapmış uçuşların hangi airline'a ait olduğu bilgisi

-- -------------------------------------------------------------------------

SELECT

leg\_instance.Flight\_number,

leg\_instance.Leg\_number,

leg\_instance.Airplane\_code,

flight\_leg.Scheduled\_departure\_time,

leg\_instance.Departure\_time,airline.Airline\_code

FROM leg\_instance,flight\_leg,flight,airline

WHERE leg\_instance.Leg\_number = flight\_leg.Leg\_number

AND leg\_instance.Flight\_number = flight\_leg.Flight\_number

AND flight\_leg.Scheduled\_departure\_time = leg\_instance.Departure\_time

AND flight\_leg.Flight\_number = flight.Flight\_number

AND flight.Airline\_code = airline.Airline\_code;

-- -------------------------------------------------------------------------

-- 4.3

-- 3 bacaklı uçuşlar ve bu uçuşlar için uçakların type bilgisi ve koltuk kapasitesi

-- -------------------------------------------------------------------------

SELECT

leg\_instance.Flight\_number,

leg\_instance.Date,

flight.Airline\_code,

COUNT(\*) AS 'Number of Legs',

airplane\_type.Airplane\_type\_name,

airplane\_type.Max\_seats

FROM leg\_instance,flight,airplane,airplane\_type

WHERE leg\_instance.Flight\_number = flight.Flight\_number

AND leg\_instance.Airplane\_code = airplane.Airplane\_code

AND airplane.Airplane\_type = airplane\_type.Airplane\_type\_name

GROUP BY leg\_instance.Flight\_number

HAVING COUNT(\*)>2;

**c. Write 4 SELECT statements to exemplify nested and/or correlated nested queries.**

-- ------------------------------------------------------------

-- 5c.1 - belirli bir uçuşa rezervasyon yaptıran müşteri bilgileri

-- listesini verir

-- -------------------------------------------------------------

SELECT

customer.\*

FROM customer

WHERE customer.Customer\_id IN (

SELECT reservation.Customer\_id FROM reservation

where reservation.Flight\_number='FN00003'

and reservation.Flight\_leg\_number='LEG1'

and reservation.Date='2021-04-24'

);

-- -------------------------------------------------------------

-- 5c.2 - hava yolu company olmayan bütün

-- companyleri listeler

-- -------------------------------------------------------------

select

company.Company\_code,

company.Company\_name

from company

where company.Company\_code

NOT IN (

select airline.Company\_code from airline

);

-- -------------------------------------------------------------

-- 5c.3 - Hiç rezervasyon kaydı olmayan customerlar

--

-- -------------------------------------------------------------

select

customer.Customer\_id,

customer.Customer\_name,

customer.Passport\_number,

customer.Country,

customer.Address,

customer.Customer\_phone,

customer.E\_mail

from customer

where customer.Customer\_id not in(

select reservation.Customer\_id from reservation

);

**d. Write 2 SELECT statements to exemplify EXISTS and NOT EXISTS statements.**

-- -------------------------------------------------------------

-- 5d.1 - FFC tablosunda kaydı olan Customerları gösterir

--

-- -------------------------------------------------------------

select

customer.Customer\_id,

customer.Customer\_name,

customer.Passport\_number,

customer.Country,

customer.Address,

customer.Customer\_phone,

customer.E\_mail

from customer

where exists (

select \*

from ffc

where ffc.Customer\_id=customer.Customer\_id

);

-- -------------------------------------------------------------

-- 5d.2 - ERZURUMA giden bütün uçuşlar

--

-- -------------------------------------------------------------

select

leg\_instance.Leg\_number Leg\_no,

leg\_instance.Flight\_number flight\_no,

flight.Airline\_code airline,

leg\_instance.Departure\_airport\_code dep\_airport,

ap1.Name dep\_airport\_name,

ap1.City dep\_airport\_city,

leg\_instance.Departure\_time dep\_time,

leg\_instance.Arrival\_airport\_code arr\_airport,

ap2.Name arr\_airport\_name,

ap2.City arr\_airport\_city,

leg\_instance.Arrival\_time arr\_time,

airplane\_type.Airplane\_type\_name airplane,

leg\_instance.Date

from leg\_instance,airport as ap1,airport as ap2,flight,airplane,airplane\_type

where leg\_instance.Departure\_airport\_code=ap1.Airport\_code

and leg\_instance.Arrival\_airport\_code=ap2.Airport\_code

and flight.Flight\_number=leg\_instance.Flight\_number

and leg\_instance.Airplane\_code=airplane.Airplane\_code

and airplane.Airplane\_type=airplane\_type.Airplane\_type\_name

and exists(

select \* from airport where

airport.Airport\_code=leg\_instance.Arrival\_Airport\_code

and airport.City='ERZURUM'

)

order by leg\_instance.Flight\_number,leg\_instance.Leg\_number;

**e. Write 3 SELECT statements to exemplify LEFT, RIGHT and FULL OUTER JOIN statements.**

-- -------------------------------------------------------------

-- 5e.1 - Hava yolu firmalarını şirket bilgileri ile birlikte listeler

--

-- -------------------------------------------------------------

select

airline.Airline\_code,

airline.Company\_code,

company.Company\_name

from airline

left join company on airline.Company\_code=company.Company\_code;

-- -------------------------------------------------------------

-- 5e.2 - Sisteme kayıtlı bütün uçakları

-- hava yolu firma bilgileriyle beraber listeler

-- -------------------------------------------------------------

select

ap.Airplane\_code,

ap.Airline\_code,

ap.Airplane\_type,

ap.Total\_number\_of\_seats,

co.Company\_name

from airplane ap

left join airline al on ap.Airline\_code=al.Airline\_code

left join company co on co.Company\_code = al.Company\_code

order by ap.Airline\_code ;

-- -------------------------------------------------------------

-- 5e.3 - Hangi uçak hangi havalimanına inebilir listeler

--

-- -------------------------------------------------------------

select

can\_land.Airplane\_type\_name,

airport.Airport\_code,

airport.Name,

airport.City,airport.State

from can\_land

left join airport on (airport.Airport\_code=can\_land.Airport\_code)

order by can\_land.Airplane\_type\_name,airport.City;

-- -------------------------------------------------------------

-- 5e.4 - Customer listesinin yanında varsa ffc bilgilerini listeler

--

-- -------------------------------------------------------------

select

customer.Customer\_id,

customer.Customer\_name,

customer.Passport\_number,

customer.Country,

customer.Address,

customer.Customer\_phone,

customer.E\_mail,

ffc.\*

from ffc

right join customer on customer.Customer\_id=ffc.Customer\_id;

-- -------------------------------------------------------------

-- 5e.5 - Customerlar ve onların varsa yapmış oldukları rezervasyonları

-- listeler

-- -------------------------------------------------------------

select

customer.Customer\_id,

customer.Customer\_name,

customer.Passport\_number,

customer.Country,

customer.Address,

customer.Customer\_phone,

customer.E\_mail,

reservation.\*

from reservation

RIGHT outer join customer on customer.Customer\_id=reservation.Customer\_id;

**6. Create 5 views that are reasonable.**

**1)**

CREATE OR REPLACE VIEW customer\_segmentation AS

select

customer.Customer\_id,

customer.Customer\_name,

ffc.Airline\_code,

ffc.Total\_millage ,

segment.Segment\_name 'Customer Segment'

,(segment.Millage\_min) 'Segment Min',

(segment.Millage\_max) 'Segment Max'

from ffc

left join customer on customer.Customer\_id = ffc.Customer\_id

left join segment on (segment.Airline\_code = ffc.Airline\_code )

and (ffc.Total\_millage between segment.Millage\_min and segment.Millage\_max) ;

**2)**

CREATE OR REPLACE VIEW flights AS

select

flight\_leg.Leg\_number Leg\_no,

flight\_leg.Flight\_number flight\_no,

flight.Airline\_code airline,

flight\_leg.Departure\_airport\_code dep\_airport,

ap1.Name dep\_airport\_name,

ap1.City dep\_airport\_city,

flight\_leg.Scheduled\_departure\_time sch\_dep\_time,

flight\_leg.Arrival\_airport\_code arr\_airport,

ap2.Name arr\_airport\_name,

ap2.City arr\_airport\_city,

flight\_leg.Scheduled\_arrival\_time sch\_arr\_time,

flight\_leg.Millage

from flight\_leg,airport as ap1,airport as ap2,flight

where flight\_leg.Departure\_airport\_code=ap1.Airport\_code

and flight\_leg.Arrival\_airport\_code=ap2.Airport\_code

and flight.Flight\_number=flight\_leg.Flight\_number;

**3)**

CREATE OR REPLACE VIEW CustomerReservations AS

select

customer.Customer\_id,

customer.Customer\_name,

reservation.Flight\_number,

flight.Airline\_code,

a1.City dep\_city,

a1.Name dep\_name,

a1.Airport\_code dep\_airport,

a2.City arr\_city,

a2.Name arr\_name,

a2.Airport\_code arr\_airport,

reservation.Date,

flight\_leg.Scheduled\_departure\_time sDep\_time,

flight\_leg.Scheduled\_arrival\_time sArr\_time,

reservation.Seat\_number,

airplane.Airplane\_code,

airplane.Airplane\_type,

reservation.Checked\_in

from reservation,customer,leg\_instance,flight,airport a1,airport a2,flight\_leg,airplane

where customer.Customer\_id = reservation.Customer\_id

and leg\_instance.Flight\_number=reservation.Flight\_number

and leg\_instance.Leg\_number=reservation.Flight\_leg\_number

and leg\_instance.Date=leg\_instance.Date

and flight\_leg.Flight\_number=reservation.Flight\_number

and flight\_leg.Leg\_number=reservation.Flight\_leg\_number

and flight.Flight\_number=reservation.Flight\_number

and a1.Airport\_code=leg\_instance.Departure\_airport\_code

and a2.Airport\_code=leg\_instance.Arrival\_airport\_code

and airplane.Airplane\_code = leg\_instance.Airplane\_code ;

**4)**

CREATE OR REPLACE VIEW LegInstances AS

select

leg\_instance.Leg\_number Leg\_no,

leg\_instance.Flight\_number flight\_no,

flight.Airline\_code airline,

leg\_instance.Departure\_airport\_code dep\_airport,

ap1.Name dep\_airport\_name,

ap1.City dep\_airport\_city,

leg\_instance.Departure\_time dep\_time,

leg\_instance.Arrival\_airport\_code arr\_airport,

ap2.Name arr\_airport\_name,

ap2.City arr\_airport\_city,

leg\_instance.Arrival\_time arr\_time,

airplane\_type.Airplane\_type\_name airplane,

leg\_instance.Date

from leg\_instance,airport as ap1,airport as ap2,flight,airplane,airplane\_type

where leg\_instance.Departure\_airport\_code=ap1.Airport\_code

and leg\_instance.Arrival\_airport\_code=ap2.Airport\_code

and flight.Flight\_number=leg\_instance.Flight\_number

and leg\_instance.Airplane\_code=airplane.Airplane\_code

and airplane.Airplane\_type=airplane\_type.Airplane\_type\_name

order by leg\_instance.Flight\_number,leg\_instance.Leg\_number;

-- TEST

select \* from LegInstances;

**5)**

create view Customer\_Mil(Customer\_name,Customer\_id,Flight\_number,Leg\_number,Millage)

as select customer.Customer\_name,customer.Customer\_id , leg\_instance.Flight\_number,leg\_instance.Leg\_number, flight\_leg.Millage

from customer,reservation,leg\_instance,flight\_leg

where customer.Customer\_id = reservation.Customer\_id

and reservation.Flight\_leg\_number = leg\_instance.Leg\_number

and reservation.Flight\_number = leg\_instance.Flight\_number

and flight\_leg.Leg\_number = leg\_instance.Leg\_number

and flight\_leg.Flight\_number = leg\_instance.Flight\_number

and leg\_instance.Leg\_number = flight\_leg.Leg\_number

group by customer.Customer\_name,customer.Customer\_id,flight\_leg.Millage ;

**PART-III**

1. Projede, FFC ve müşteri segmentasyonu üzerine yapılan araştırmalara göre, bir müşterinin FFC olma koşulu o müşterinin toplam mil sayısına göre değerlendirilmektedir.

Her havayolu şirketinin müşteri segmentasyonu farklıdır. Projede bu farklılık dikkate alınarak her havayolu şirketi için ayrı segmentasyonlar oluşturulmuştur. Projede yer alan 5 havayolu şirketi ve bunların segmentasyon bilgileri aşağıda listelenmektedir:

PEGASUS : Copper: 2000,2500

Silver : 2500,3000

Gold : 3000,3500

Platin : 3500,10000

THY: Class 4 : 3000,3500

Class 3 : 3500,4000

Class 2 : 4000,4000

Class 1 : 4500,10000

ANADOLUJET : Serçe : 2500,3000

Leylek : 3000,3500

Kuzgun: 3500,4000

Kartal : 4500,10000

ONURAIR : D Class : 2000,2500

C Class : 2500,3000

B Class : 3000,3500

A Class : 3500,10000

SUNEXPRESS : Classic : 2000,3000

Classic Plus : 3000,4000

Elite : 4000,5000

Elite Plus : 5000,10000

Projede, her müşteri rezervasyon işleminde FFC tablosuna o müşteri eklenmektedir. Rezervasyon işleminden sonra müşteri check-in yapmış ise o müşterinin FFC tablosundaki mil bilgisi, uçuşa ait flight\_leg den alınarak o zamana kadarki olan mil toplamına eklenmektedir.

Havayolu şirketleri ve bunların segmentasyon bilgilerini tutan bir segment tablosu oluşturulmuştur. Bu tabloda havayolu şirketinin adıyla beraber segment isimleri ve bunların minimum ve maksimum değerleri yer almaktadır.

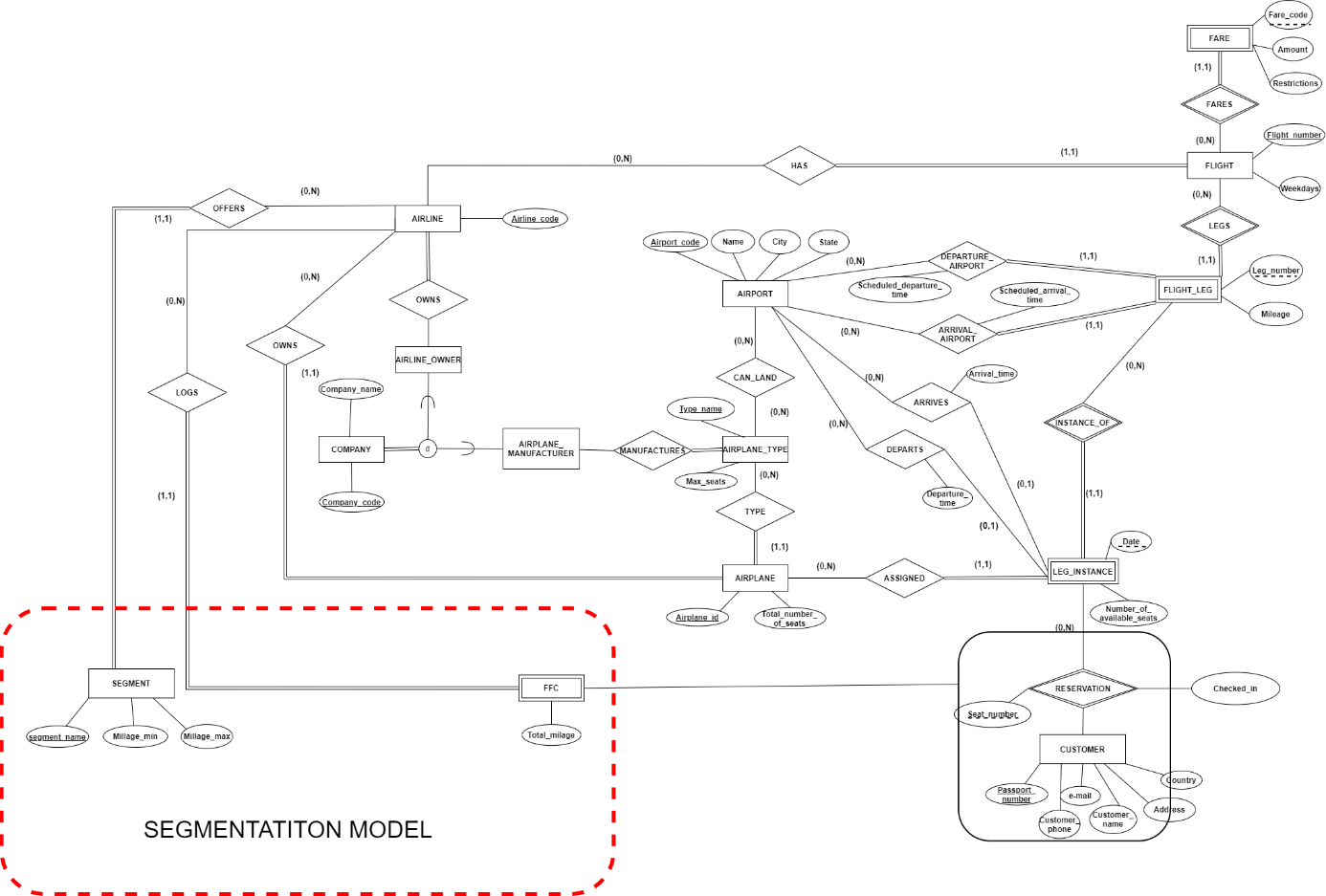
Bir müşterinin hangi segmentte yer aldığı, FFC tablosundaki müşterinin toplam milinin segment tablolarında her havayolu şirketi için yer alan minimum ve maksimum değerleri arasında hangisine giriyorsa müşteri o segmente aittir. Bu durumda müşteriler farklı havayolları şirketleri için farklı segmentlerde yer alabilirler.

2- Arayüzde her tablonun değerleri ve segmentasyon için de müşterilerin toplam mil bilgilerine göre uçuş yaptıkları havayolu firmalarında hangi segmente ait olduğu gösterilmektedir.

metin, iç mekan, ekran görüntüsü içeren bir resim

Açıklama otomatik olarak oluşturuldu

# **Vize Projesi Sonrası Düzenlemeler**



Segmentasyon modelinin gösterimi için bir segment entitysi eklenip airline ile aralarında many-to-one relation tanımlanmıştır. Bu durumda her segmentin ait olduğu yalnızca bir airline var iken, her airline için birden fazla segment olabileceği ifade edilmektedir. Tabloların oluşumunda airline’ın primary key’i segment için foreign key olacaktır.

FFC müşteri kayıtlarının airline bilgilerine sahip olabilmek için FFC entitysi ile airline arasına many-to-one relation tanımlanmıştır. Tabloların oluşumunda airline’ın primary key’i segment FFC için foreign key olacaktır, böylece FFC kayıtları için airline bilgisine kolaylıkla erişim sağlanabilecektir.

Uçuş yapacak uçakların bağlı olacağı havayolu firmaları vardır. Bu sorguların kolaylıkla yapılabilmesi için airplane ve airline entityleri arasında relation tanımlanmıştır.

FFC tablosunun kayıtları müşterilerin rezervasyon işlemi yapmasıyla beraber oluştuğu için temsili olarak customer ve reservation’ın birleşiminden oluşacak FFC kaydının gösterimi yapılmaktadır.