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| Trabajo práctico Laboratorio de Computación III |
| Base de datos |
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# Introducción

El sistema planteado en este trabajo práctico consta de un análisis y planificación de los vuelos según los aviones que posee una compañía dada. Estos aviones pueden estar localizados en diferentes aeropuertos a través del tiempo. Asimismo, un plan a futuro sería relacionar estos vuelos con tripulantes asignados según su cargo y su tiempo laboral.

El objetivo por lo tanto sería crear automáticamente un plan de gestión que relacione los vuelos, aviones y tripulantes, generando un gráfico de Gantt.

La base de datos consta de 3 ramas maestras: aviones, especificando tipos y fabricante; rutas, que unen diferentes aeropuertos y agregan datos de tiempo de vuelo y descansos; y por último los tripulantes, divididos por cargo y capacitaciones.

# Deer

# 

# 

# Create

use master

go

CREATE DATABASE Airport\_Manager

GO

USE Airport\_Manager

GO

CREATE TABLE tipos\_de\_aviones

(

codigo\_TA varchar(10),

fabricante\_TA varchar(50) NOT NULL,

modelo\_TA varchar(50) NOT NULL,

descripcion\_TA varchar(255) NOT NULL,

cant\_pil\_TA int NULL,

cant\_jc\_TA int NULL,

cant\_com\_TA int NULL,

cant\_aux\_TA int NULL,

CONSTRAINT PK\_TA PRIMARY KEY (codigo\_TA)

)

GO

CREATE TABLE tipos\_de\_tripulantes

(

codigo\_TT varchar(10) NOT NULL,

nombre\_TT varchar (50) NOT NULL,

descripcion\_TT varchar (50) NOT NULL,

Constraint PK\_TT PRIMARY KEY (codigo\_TT)

)

GO

CREATE TABLE tripulantes

(

legajo\_TCP int IDENTITY (19000,1),

tipo\_TCP varchar (10) NOT NULL REFERENCES tipos\_de\_tripulantes(codigo\_TT),

nombre\_TCP varchar (20) NOT NULL,

apellido\_TCP varchar (20) NOT NULL,

cuil\_TCP varchar (10) NOT NULL,

telefono\_TCP varchar (20) NOT NULL,

baja\_TCP int NOT NULL,

CONSTRAINT PK\_TCP PRIMARY KEY (legajo\_TCP)

)

GO

CREATE TABLE TCP\_por\_TA(

legajo\_TCP int REFERENCES tripulantes(legajo\_TCP),

codigo\_TA varchar (10) REFERENCES tipos\_de\_aviones(codigo\_TA),

CONSTRAINT FK\_TCPTA PRIMARY KEY( legajo\_TCP, codigo\_TA)

)

GO

CREATE TABLE aeropuertos

(

codigo\_ATO varchar(10),

nombre\_ATO varchar(255) NOT NULL,

pais\_ATO varchar(50) NOT NULL,

provincia\_ATO varchar(50) NOT NULL,

contador\_ATO int NOT NULL,

CONSTRAINT PK\_ATO PRIMARY KEY (codigo\_ATO)

)

GO

CREATE TABLE aviones

(

codigo\_AV varchar (10),

tipo\_AV varchar (10) NOT NULL REFERENCES tipos\_de\_aviones(codigo\_TA),

ultimo\_ATO\_programado\_AV varchar(10) NOT NULL REFERENCES aeropuertos(codigo\_ATO),

ultima\_fecha\_programada\_AV datetime NOT NULL,

posicion\_AV int NULL,

baja\_AV int NOT NULL,

CONSTRAINT PK\_AV PRIMARY KEY (codigo\_AV)

)

GO

CREATE TABLE rutas

(

codigo\_RTA varchar(10),

ATOpartida\_RTA varchar(10) NOT NULL REFERENCES aeropuertos(codigo\_ATO),

ATOarrivo\_RTA varchar(10) NOT NULL REFERENCES aeropuertos(codigo\_ATO),

ETA\_RTA int NOT NULL,

posta\_RTA int NOT NULL,

CONSTRAINT PK\_RTA PRIMARY KEY (codigo\_RTA)

)

GO

CREATE TABLE RTA\_por\_TA

(

codigo\_RTA varchar(10) REFERENCES rutas(codigo\_RTA),

codigo\_TA varchar(10) REFERENCES tipos\_de\_aviones(codigo\_TA),

CONSTRAINT PK\_RTA\_POR\_AV PRIMARY KEY (codigo\_RTA, codigo\_TA)

)

GO

CREATE TABLE vuelos

(

codigo\_VLO varchar(10),

codigo\_RTA varchar(10) NOT NULL REFERENCES rutas(codigo\_RTA),

fecha\_salida\_VLO datetime NOT NULL,

sincronizado\_VLO int NOT NULL,

CONSTRAINT PK\_VLO PRIMARY KEY (codigo\_VLO)

)

GO

CREATE TABLE VLO\_por\_AV

(

codigo\_VLO varchar(10) REFERENCES vuelos(codigo\_VLO),

codigo\_AV varchar(10) REFERENCES aviones(codigo\_AV),

CONSTRAINT PK\_VLO\_por\_AV PRIMARY KEY (codigo\_VLO, codigo\_AV)

)

GO

CREATE TABLE VLO\_por\_AV\_por\_TCP

(

legajo\_TCP int,

codigo\_VLO varchar(10),

codigo\_AV varchar(10),

CONSTRAINT FK\_VLO\_por\_AV FOREIGN KEY (codigo\_VLO, codigo\_AV) REFERENCES VLO\_por\_AV(codigo\_VLO, codigo\_AV),

CONSTRAINT PK\_VLO\_por\_AV\_por\_TCP FOREIGN KEY (legajo\_TCP) REFERENCES tripulantes (legajo\_TCP)

)

GO

CREATE TABLE usuarios

(

id\_USU int identity(1,1) not null,

usuario\_USU varchar(50) not null,

contrasena\_USU varchar(50) not null,

nombre\_USU varchar(50) not null,

apellido\_USU varchar(50) not null,

correo\_USU varchar(50) null,

telefono\_USU varchar(50) null,

foto\_USU image null,

CONSTRAINT PK\_USU PRIMARY KEY(id\_USU)

)

GO

CREATE TABLE backups

(

fecha\_bkp datetime,

direccion\_bkp varchar(500) not null,

CONSTRAINT PK\_BKP PRIMARY KEY(fecha\_bkp)

)

GO

# Inserts

USE Airport\_Manager

go

INSERT INTO aeropuertos (codigo\_ATO, nombre\_ATO, pais\_ATO, provincia\_ATO, contador\_ATO)

SELECT 'EZE', 'Aeropuerto Internacional Ministro Pistarini de Ezeiza', 'Argentina', 'Buenos Aires', 0 UNION

SELECT 'BRC', 'Aeropuerto Internacional Teniente Luis Candelaria', 'Argentina', 'Rio Negro', 0 UNION

SELECT 'COR', 'Aeropuerto Internacional Ingeniero Ambrosio Taravella', 'Argentina', 'Córdoba', 0 UNION

SELECT 'SCL', 'Aeropuerto Internacional Comodoro Arturo Merino Benitez', 'Chile', 'Santiago de Chile', 0 UNION

SELECT 'MVD', 'Aeropuerto Internacional de Carrasco', 'Uruguay', 'Montevideo', 0 UNION

SELECT 'ROM', 'Aeropuerto Intercontinental Leonardo da Vinci', 'Italia', 'Roma', 0 UNION

SELECT 'JKF', 'Aeropuerto Internacioanl John F. Kennedy', 'Estados Unidos', 'New York', 0 UNION

SELECT 'CDG', 'Aeropuerto de Paris - Charles de Gaulle', 'Francia', 'Paris', 0 UNION

SELECT 'LHR', 'Aeropuerto de Londres - Heatrow', 'Inglaterra', 'Londres', 0 UNION

SELECT 'HND', 'Aeropuerto Internacional de Tokio', 'Japon', 'Tokio', 0 UNION

SELECT 'SVO', 'Aeropuerto Internacional de Moscu - Sheremetyevo', 'Rusia', 'Moscu', 0 UNION

SELECT 'DFW', 'Aeropuerto Internacional de Dallas - Fort Worth', 'Estados Unidos', 'Dallas', 0 UNION

SELECT 'MEX', 'Aeropuerto Internacional Benito Juárez de la Ciudad de México', 'Mexico', 'Ciudad de Mexico', 0 UNION

SELECT 'GRU', 'Aeropuerto Internacional de São Paulo-Guarulhos – Gobernador André Franco Montoro', 'Brasil', 'San Pablo', 0 UNION

SELECT 'GIG', 'Aeropuerto Internacional Antônio Carlos Jobim de Río de Janeiro', 'Brasil', 'Rio de Janeiro', 0 UNION

SELECT 'MAD', 'Aeropuerto de Madrid Barajas Adolfo Suárez', 'España', 'Madrid' , 0

INSERT INTO tipos\_de\_aviones (codigo\_TA, fabricante\_TA, modelo\_TA, descripcion\_TA, cant\_pil\_TA, cant\_jc\_TA, cant\_com\_TA, cant\_aux\_TA)

SELECT 'B747', 'Boeing', '747', 'También conocido como Jumbo Jet o el modelo de Air Force One', 2, 1, 1, 7 UNION

SELECT 'B777', 'Boeing', '777', 'Una capacidad de 300 a 550 pasajeros', 1, 1, 1, 8 UNION

SELECT 'B757', 'Boeing', '757', 'Este avión de tamaño medio es ideal para vuelos comerciales, hasta 289 pasajeros', 1, 1, 1, 5 UNION

SELECT 'A320', 'Airbus', 'A320', 'perfecto para los vuelos comerciales nacionales', 1, 1, 1, 4 UNION

SELECT 'B737', 'Boeing', '737', 'Un avion de porte pequeño para vuelos rapidos', 1, 1, 1, 3 UNION

SELECT 'B787', 'Boeing', '787', 'Su gran capacidad y su ingeniería inteligente son sus mejores atractivos', 1, 1, 1, 3 UNION

SELECT 'A340', 'Airbus', '340', 'El avión Airbus A340 es un avión jet comercial de pasajeros de largo alcance', 2, 2, 1, 10 UNION

SELECT 'A380', 'Airbus', '380', 'El Airbus A380 es considerado el mayor avión de pasajeros hoy en día', 2, 2, 1, 16 UNION

SELECT 'MD80', 'McDonnell Douglas', '80', 'MD-80 es una familia de jets comerciales de tamaño mediano, de corto y mediano alcance, de un solo pasillo.', 2, 2, 1, 8 UNION

SELECT 'E170', 'Embraer', '170', 'La familia E-Jet es una de jets de fuselaje estrecho de mediano alcance mas utilizado', 2, 1, 1, 4 UNION

SELECT 'A330', 'Airbus', '330', 'El Airbus A330 es un avión jet de fuselaje ancho bimotor', 1, 1, 1, 4

INSERT INTO tipos\_de\_tripulantes (codigo\_TT, nombre\_TT, descripcion\_TT)

SELECT 'pil', 'Piloto', 'Piloto Civil de Aeronave' UNION

SELECT 'jc', 'Jefe de Cabina', 'Responsable de la aeronave' UNION

SELECT 'aux', 'Auxiliar', 'Seguridad del vuelo y comodidad de los pasajeros' UNION

SELECT 'com', 'Comisario', 'Responsable de seguridad'

INSERT INTO tripulantes(tipo\_TCP, nombre\_TCP, apellido\_TCP, cuil\_TCP, telefono\_TCP, baja\_TCP)

SELECT 'pil', 'Carlos', 'Musiani', '1040630040', '3056619968', 1 UNION

SELECT 'pil', 'Jesús', 'Herrera', '4008630481', '3519316998', 1 UNION

SELECT 'pil', 'Lugo', 'Rufián', '1563219251', '1670832722', 1 UNION

SELECT 'pil', 'Franco', 'Bañez', '3248810286', '2986728920', 1 UNION

SELECT 'pil', 'Lucila', 'Pinto', '1009826566', '3716029976', 1 UNION

SELECT 'pil', 'Miguel', 'Buenafuente', '2787721855', '4156830654', 1 UNION

SELECT 'pil', 'Damian', 'Lopez', '1266616434', '2075821362', 1 UNION

SELECT 'pil', 'Ariel', 'Buenafuente', '2558337165', '3147432219', 1 UNION

SELECT 'pil', 'Jesús', 'Smith', '1932229362', '3912215434', 1 UNION

SELECT 'pil', 'Patricia', 'Maldonado', '1594827770', '1143038316', 1 UNION

SELECT 'pil', 'Ana', 'de Lourdes', '1874016435', '1255029516', 1 UNION

SELECT 'pil', 'Ismaél', 'Montenegro', '2970725538', '2149829677', 1 UNION

SELECT 'pil', 'Emmanuel', 'Perez', '2506015405', '2962027942', 1 UNION

SELECT 'pil', 'Emmanuel', 'Gutierrez', '2386518581', '1207834059', 1 UNION

SELECT 'pil', 'Lucila', 'Radnikov', '1627020167', '1379117024', 1 UNION

SELECT 'pil', 'Marcelo', 'Del Bueno', '2490025427', '1051231947', 1 UNION

SELECT 'pil', 'Alberto', 'Estias', '1063325899', '4261217214', 1 UNION

SELECT 'pil', 'Ariel', 'Fernandez', '1630218730', '1818815387', 1 UNION

SELECT 'pil', 'Esther', 'Fuertez', '3847627685', '2009442484', 1 UNION

SELECT 'pil', 'Miguel', 'Pogonza', '2405441549', '1803410551', 1 UNION

SELECT 'pil', 'Lucas', 'Buenafuente', '1240728930', '4058636778', 1 UNION

SELECT 'pil', 'Damian', 'Buenafuente', '1811523669', '2996122016', 1 UNION

SELECT 'pil', 'Ludmila', 'Luna', '3971633959', '1365528625', 1 UNION

SELECT 'pil', 'Matías', 'Bañez', '1800234205', '3707637016', 1 UNION

SELECT 'pil', 'Lucas', 'Gutierrez', '3313515599', '1939327780', 1 UNION

SELECT 'pil', 'Ana', 'Lopez', '2051419193', '1514014913', 1 UNION

SELECT 'pil', 'María', 'Cardenas', '1568328746', '2916723299', 1 UNION

SELECT 'pil', 'Patricia', 'Herrera', '3938922583', '1916632887', 1 UNION

SELECT 'pil', 'Matías', 'Fuertez', '4131934707', '3525932876', 1 UNION

SELECT 'pil', 'Andrés', 'Maldonado', '3879237625', '3534121579', 1 UNION

SELECT 'pil', 'Emmanuel', 'Radnikov', '1299933329', '1084938586', 1 UNION

SELECT 'pil', 'Ana', 'Cardenas', '1764528305', '1092215361', 1 UNION

SELECT 'pil', 'Raul', 'Gomez', '2381534928', '2289120995', 1 UNION

SELECT 'pil', 'Cristian', 'Rodriguez', '2669621502', '3242623277', 1 UNION

SELECT 'pil', 'Lugo', 'Lapido', '2822910272', '1762825069', 1 UNION

SELECT 'pil', 'Damian', 'Smith', '1489723079', '1620019338', 1 UNION

SELECT 'pil', 'Pedro', 'Cardenas', '2615738767', '2729111121', 1 UNION

SELECT 'pil', 'Miguel', 'Smith', '4064919030', '2856410203', 1 UNION

SELECT 'pil', 'Lucia', 'Gutierrez', '2566639427', '2281714036', 1 UNION

SELECT 'pil', 'Ariel', 'Bañez', '2359211510', '4255623558', 1 UNION

SELECT 'jc', 'Marcelo', 'Lopez', '1086327488', '4118213728', 1 UNION

SELECT 'jc', 'Miguel', 'Bañez', '1707713879', '2028741004', 1 UNION

SELECT 'jc', 'Jesús', 'Zapatero', '3488341977', '1065135223', 1 UNION

SELECT 'jc', 'Emmanuel', 'Rufián', '2664526940', '2240633563', 1 UNION

SELECT 'jc', 'Monica', 'Musiani', '2289834699', '3846810043', 1 UNION

SELECT 'jc', 'Lucia', 'Rodriguez', '2202531880', '2583226849', 1 UNION

SELECT 'jc', 'Emmanuel', 'Buenafuente', '3832631259', '3922839962', 1 UNION

SELECT 'jc', 'Antonio', 'Borbón', '3357310257', '1547631624', 1 UNION

SELECT 'jc', 'Patricia', 'de Lourdes', '3015210673', '2454131188', 1 UNION

SELECT 'jc', 'Antonio', 'Estias', '2940233334', '3097337062', 1 UNION

SELECT 'jc', 'Andrés', 'Perez', '2314635121', '3735134775', 1 UNION

SELECT 'jc', 'Damian', 'Candela', '1808031802', '3421827220', 1 UNION

SELECT 'jc', 'Mateo', 'Bañez', '2117628027', '2717810594', 1 UNION

SELECT 'jc', 'Emmanuel', 'Luna', '1956026368', '3270616528', 1 UNION

SELECT 'jc', 'Ludmila', 'Musiani', '1988710438', '2162313240', 1 UNION

SELECT 'jc', 'Pedro', 'Herrera', '1388831752', '3576529525', 1 UNION

SELECT 'jc', 'Alberto', 'Lopez', '1715016441', '1555512451', 1 UNION

SELECT 'jc', 'Andrés', 'Zapatero', '2644042665', '2698932026', 1 UNION

SELECT 'jc', 'Jesús', 'Radnikov', '2433238859', '3164418731', 1 UNION

SELECT 'jc', 'Miguel', 'Correa', '3323635216', '2146133865', 1 UNION

SELECT 'jc', 'Ludmila', 'Rodriguez', '3232912380', '3579321655', 1 UNION

SELECT 'jc', 'Lucia', 'Cardenas', '4169731864', '3063442721', 1 UNION

SELECT 'jc', 'Lucia', 'Perez', '3372021523', '3004418340', 1 UNION

SELECT 'jc', 'Lucia', 'Pinto', '3039732299', '3622523630', 1 UNION

SELECT 'jc', 'Carmen', 'Fuertez', '2220419705', '3931532772', 1 UNION

SELECT 'jc', 'Patricia', 'Zapatero', '3761722200', '2536935208', 1 UNION

SELECT 'jc', 'Marcelo', 'Fernandez', '3792233238', '1959810265', 1 UNION

SELECT 'jc', 'Esther', 'Gomez', '1675426101', '2454641834', 1 UNION

SELECT 'jc', 'Carmen', 'Montero', '1598338219', '2658712019', 1 UNION

SELECT 'jc', 'Patricia', 'Del Bueno', '1050423096', '2068531572', 1 UNION

SELECT 'jc', 'Ariel', 'Pinto', '3108325392', '1699236998', 1 UNION

SELECT 'jc', 'Jesús', 'Fuertez', '3251019281', '3464537379', 1 UNION

SELECT 'jc', 'Lucas', 'Montenegro', '4017430768', '1473527183', 1 UNION

SELECT 'jc', 'José', 'Fuertez', '1178630154', '3886136015', 1 UNION

SELECT 'jc', 'David', 'Zapatero', '1098524481', '1428838761', 1 UNION

SELECT 'jc', 'Patricia', 'Lapido', '4057437474', '1713110341', 1 UNION

SELECT 'jc', 'Matías', 'Molina', '2987825512', '2564321195', 1 UNION

SELECT 'jc', 'Carlos', 'Musiani', '3576034246', '2216518343', 1 UNION

SELECT 'jc', 'Andrés', 'Musiani', '3165239821', '2642038725', 1 UNION

SELECT 'jc', 'Rubén', 'Luna', '3754225745', '3735430273', 1 UNION

SELECT 'com', 'Alberto', 'Fuertez', '1149715527', '3342328955', 1 UNION

SELECT 'com', 'Matías', 'Estias', '3106935812', '1227227927', 1 UNION

SELECT 'com', 'Ismaél', 'Borbón', '3721640700', '2332223708', 1 UNION

SELECT 'com', 'Antonio', 'Molina', '2135635974', '4155822209', 1 UNION

SELECT 'com', 'Damian', 'Fernandez', '3782717414', '1079127830', 1 UNION

SELECT 'com', 'Lucia', 'Luna', '1438436408', '4147735619', 1 UNION

SELECT 'com', 'Andrés', 'Zapatero', '1115731206', '1005321735', 1 UNION

SELECT 'com', 'Monica', 'Pinto', '1234532888', '3403523310', 1 UNION

SELECT 'com', 'Raul', 'Montero', '1051931118', '2727417441', 1 UNION

SELECT 'com', 'Ludmila', 'Maldonado', '3727938703', '1966910513', 1 UNION

SELECT 'com', 'Alberto', 'Luna', '2269811395', '3567214444', 1 UNION

SELECT 'com', 'David', 'Buenafuente', '3239732524', '3124841135', 1 UNION

SELECT 'com', 'Esther', 'Smith', '3264626326', '2519926812', 1 UNION

SELECT 'com', 'Miguel', 'Montenegro', '3559639967', '1635118917', 1 UNION

SELECT 'com', 'Monica', 'Cardenas', '4034820831', '1515524848', 1 UNION

SELECT 'com', 'Lugo', 'Fernandez', '3841911961', '3424513531', 1 UNION

SELECT 'com', 'Lucila', 'Buenafuente', '4116032827', '3283011467', 1 UNION

SELECT 'com', 'Emmanuel', 'de Lourdes', '4142331362', '2514114824', 1 UNION

SELECT 'com', 'José', 'Lapido', '3001029065', '1207311094', 1 UNION

SELECT 'com', 'Lucas', 'Pogonza', '1412719418', '3136035276', 1 UNION

SELECT 'com', 'Cristian', 'Lopez', '4074228768', '4085427382', 1 UNION

SELECT 'com', 'Carlos', 'Fuertez', '4113930581', '2969435368', 1 UNION

SELECT 'com', 'Marcelo', 'Pinto', '1885738931', '2700942474', 1 UNION

SELECT 'com', 'María', 'Estias', '3493412337', '2521614912', 1 UNION

SELECT 'com', 'José', 'Perez', '3046229608', '3040715816', 1 UNION

SELECT 'com', 'Antonio', 'Del Bueno', '1778420282', '2456439925', 1 UNION

SELECT 'com', 'Cristian', 'Buenafuente', '1584230101', '3583020760', 1 UNION

SELECT 'com', 'Ariel', 'Montero', '2564727232', '1468123804', 1 UNION

SELECT 'com', 'Carmen', 'Bañez', '1645217340', '2159118225', 1 UNION

SELECT 'com', 'Carlos', 'Montero', '1390521688', '2378115460', 1 UNION

SELECT 'com', 'Raul', 'Rufián', '1822537801', '1567328244', 1 UNION

SELECT 'com', 'Patricia', 'Musiani', '3017125969', '3006926694', 1 UNION

SELECT 'com', 'Pedro', 'Rodriguez', '1228637642', '1139134822', 1 UNION

SELECT 'com', 'Ludmila', 'Luna', '1827641207', '2437220429', 1 UNION

SELECT 'com', 'Monica', 'Pogonza', '3858239022', '2417224498', 1 UNION

SELECT 'com', 'Cristian', 'Zapatero', '1015241037', '2497442345', 1 UNION

SELECT 'com', 'Lugo', 'Rufián', '2707838977', '3038118302', 1 UNION

SELECT 'com', 'Andrés', 'Perez', '3694321159', '2312736175', 1 UNION

SELECT 'com', 'Damian', 'Montenegro', '2122239431', '3703138765', 1 UNION

SELECT 'com', 'José', 'Smith', '2457430022', '1797513364', 1 UNION

SELECT 'aux', 'Patricia', 'Del Bueno', '1259422512', '3924120532', 1 UNION

SELECT 'aux', 'Ariel', 'Estias', '2827635287', '2237426560', 1 UNION

SELECT 'aux', 'Franco', 'Musiani', '3754329706', '4155316603', 1 UNION

SELECT 'aux', 'Marcelo', 'Molina', '1388610407', '1054313692', 1 UNION

SELECT 'aux', 'Lucila', 'Montenegro', '2922630381', '2703925868', 1 UNION

SELECT 'aux', 'Alberto', 'Borbón', '3966227698', '3648026486', 1 UNION

SELECT 'aux', 'Ismaél', 'Borbón', '1376140572', '4127440161', 1 UNION

SELECT 'aux', 'Antonio', 'Rufián', '3807520737', '4151615330', 1 UNION

SELECT 'aux', 'Jesús', 'Herrera', '1029612477', '1849515929', 1 UNION

SELECT 'aux', 'Franco', 'Montenegro', '1714119289', '2069720608', 1 UNION

SELECT 'aux', 'Raul', 'Fuertez', '3982716921', '1655033621', 1 UNION

SELECT 'aux', 'Lucas', 'Rufián', '3726034450', '3556115578', 1 UNION

SELECT 'aux', 'Ariel', 'Correa', '2987817297', '3899924499', 1 UNION

SELECT 'aux', 'Carmen', 'Rodriguez', '3837232442', '2653722716', 1 UNION

SELECT 'aux', 'Carlos', 'Fuertez', '3592236804', '2084422318', 1 UNION

SELECT 'aux', 'David', 'Montenegro', '1199220586', '4242427380', 1 UNION

SELECT 'aux', 'Emmanuel', 'Perez', '3713929791', '1376713142', 1 UNION

SELECT 'aux', 'Lucia', 'de Lourdes', '1332423270', '1349615435', 1 UNION

SELECT 'aux', 'Marcelo', 'Cardenas', '2227929667', '3323913069', 1 UNION

SELECT 'aux', 'Lucas', 'Luna', '1650236987', '1337119139', 1 UNION

SELECT 'aux', 'Ana', 'Herrera', '1646415262', '2935036962', 1 UNION

SELECT 'aux', 'Alberto', 'Rodriguez', '2564737141', '3786339186', 1 UNION

SELECT 'aux', 'Ana', 'Montenegro', '1102035299', '3357530898', 1 UNION

SELECT 'aux', 'Carmen', 'Bañez', '1880627423', '1662022109', 1 UNION

SELECT 'aux', 'Lugo', 'Pogonza', '3699632908', '2578921243', 1 UNION

SELECT 'aux', 'Carlos', 'Lapido', '3917240607', '3600723096', 1 UNION

SELECT 'aux', 'Raul', 'Rodriguez', '1678740882', '3252628802', 1 UNION

SELECT 'aux', 'Raul', 'Perez', '1064716017', '1448612510', 1 UNION

SELECT 'aux', 'Ludmila', 'Herrera', '2773725770', '3354533705', 1 UNION

SELECT 'aux', 'Jesús', 'Fernandez', '1810419586', '2137513228', 1 UNION

SELECT 'aux', 'Raul', 'Candela', '2230518754', '2386130986', 1 UNION

SELECT 'aux', 'David', 'Luna', '3963110864', '2146727107', 1 UNION

SELECT 'aux', 'Ludmila', 'Cardenas', '3188740764', '3769236567', 1 UNION

SELECT 'aux', 'José', 'Del Bueno', '3492216097', '3981611678', 1 UNION

SELECT 'aux', 'Marcelo', 'Gomez', '2996533802', '2271018037', 1 UNION

SELECT 'aux', 'Jesús', 'Radnikov', '3245710050', '2065520753', 1 UNION

SELECT 'aux', 'Monica', 'Pogonza', '2290226827', '2642635925', 1 UNION

SELECT 'aux', 'Ariel', 'Smith', '3831638017', '1432216387', 1 UNION

SELECT 'aux', 'Esther', 'Fuertez', '3558827270', '2601812821', 1 UNION

SELECT 'aux', 'Andrés', 'Candela', '3184011757', '3170522926', 1 UNION

SELECT 'aux', 'Raul', 'Perez', '1309328618', '1994732203', 1 UNION

SELECT 'aux', 'Carlos', 'Pogonza', '1296113398', '2551236178', 1 UNION

SELECT 'aux', 'Esther', 'Luna', '1691938158', '2908215123', 1 UNION

SELECT 'aux', 'Lugo', 'Herrera', '3184237970', '2041122980', 1 UNION

SELECT 'aux', 'Cristian', 'Lopez', '3525718438', '1044623512', 1 UNION

SELECT 'aux', 'Pedro', 'Bañez', '4005417588', '3800829349', 1 UNION

SELECT 'aux', 'Mateo', 'de Lourdes', '3337836644', '2096812273', 1 UNION

SELECT 'aux', 'Antonio', 'Fernandez', '2082724567', '4112037149', 1 UNION

SELECT 'aux', 'Rubén', 'Borbón', '2774925054', '4024341572', 1 UNION

SELECT 'aux', 'Miguel', 'Gomez', '3956840583', '2613919939', 1 UNION

SELECT 'aux', 'Carlos', 'Montenegro', '1515222362', '1252415728', 1 UNION

SELECT 'aux', 'Ismaél', 'Cardenas', '2338424210', '2933418277', 1 UNION

SELECT 'aux', 'Carlos', 'Estias', '4061331326', '2392532223', 1 UNION

SELECT 'aux', 'Lugo', 'Fernandez', '4139216142', '2005730006', 1 UNION

SELECT 'aux', 'Marcelo', 'Rodriguez', '1810828278', '2402033162', 1 UNION

SELECT 'aux', 'Ariel', 'Zapatero', '1985339434', '1572021691', 1 UNION

SELECT 'aux', 'Esther', 'Zapatero', '1570521094', '2468923852', 1 UNION

SELECT 'aux', 'Mateo', 'Fernandez', '3797727193', '1609323320', 1 UNION

SELECT 'aux', 'Alberto', 'Montenegro', '2929135793', '2152042347', 1 UNION

SELECT 'aux', 'David', 'Molina', '4011226555', '2624422616', 1 UNION

SELECT 'aux', 'Esther', 'Smith', '2208526666', '1358030500', 1 UNION

SELECT 'aux', 'Ludmila', 'Bañez', '1186326670', '2783214300', 1 UNION

SELECT 'aux', 'José', 'Correa', '4051216091', '2222935574', 1 UNION

SELECT 'aux', 'Jesús', 'Luna', '1292519956', '3698918950', 1 UNION

SELECT 'aux', 'Mateo', 'Montero', '3675232948', '2602740976', 1 UNION

SELECT 'aux', 'Alberto', 'Borbón', '3282037574', '1020533573', 1 UNION

SELECT 'aux', 'Jesús', 'Estias', '2775024726', '4009119006', 1 UNION

SELECT 'aux', 'Ana', 'Estias', '1259314713', '3136723458', 1 UNION

SELECT 'aux', 'Patricia', 'Cardenas', '2439133119', '2757828465', 1 UNION

SELECT 'aux', 'Lucia', 'Rodriguez', '3142713071', '1706015723', 1 UNION

SELECT 'aux', 'Emmanuel', 'Fuertez', '3294021783', '3548932527', 1 UNION

SELECT 'aux', 'Lucas', 'Radnikov', '1819333536', '2866810911', 1 UNION

SELECT 'aux', 'Raul', 'Smith', '2121039260', '1309613370', 1 UNION

SELECT 'aux', 'Patricia', 'Fuertez', '3548011977', '3514635195', 1 UNION

SELECT 'aux', 'Carlos', 'Cardenas', '2048240203', '3287026212', 1 UNION

SELECT 'aux', 'Andrés', 'Rufián', '3734717589', '1839516772', 1 UNION

SELECT 'aux', 'Alberto', 'Montenegro', '2626715151', '1175215571', 1 UNION

SELECT 'aux', 'Matías', 'Smith', '1729134283', '1879738390', 1 UNION

SELECT 'aux', 'David', 'Lapido', '3276714125', '1310419440', 1 UNION

SELECT 'aux', 'Lucia', 'Pogonza', '3749032696', '2976526987', 1 UNION

SELECT 'aux', 'Matías', 'Fernandez', '2797226160', '3057627158', 1 UNION

SELECT 'aux', 'Emmanuel', 'Fernandez', '3999540990', '2702622223', 1 UNION

SELECT 'aux', 'Ludmila', 'Maldonado', '2210920947', '3930318328', 1 UNION

SELECT 'aux', 'Emmanuel', 'Musiani', '1230037276', '4147319330', 1 UNION

SELECT 'aux', 'Ludmila', 'Maldonado', '3467216397', '3487538419', 1 UNION

SELECT 'aux', 'Raul', 'Borbón', '1472727199', '3702436559', 1 UNION

SELECT 'aux', 'Franco', 'Zapatero', '1445719552', '2629619189', 1 UNION

SELECT 'aux', 'Lucas', 'Lopez', '1946131209', '2661525228', 1 UNION

SELECT 'aux', 'Jesús', 'Gomez', '1103932324', '3104918765', 1 UNION

SELECT 'aux', 'Miguel', 'Gutierrez', '1896417375', '2390810514', 1 UNION

SELECT 'aux', 'Lucia', 'Radnikov', '1506135025', '3848432468', 1 UNION

SELECT 'aux', 'Lugo', 'Musiani', '2590728569', '3448715455', 1 UNION

SELECT 'aux', 'Mateo', 'Musiani', '1515640876', '2242716444', 1 UNION

SELECT 'aux', 'Ana', 'Lopez', '2913215557', '1179025225', 1 UNION

SELECT 'aux', 'Patricia', 'Rufián', '1653636147', '3473728856', 1 UNION

SELECT 'aux', 'Ismaél', 'Radnikov', '1931418076', '1432235686', 1 UNION

SELECT 'aux', 'Carlos', 'Gutierrez', '1202530187', '3474616588', 1 UNION

SELECT 'aux', 'Esther', 'Lapido', '1775541576', '3064117273', 1 UNION

SELECT 'aux', 'Cristian', 'Estias', '1101829993', '1059836949', 1 UNION

SELECT 'aux', 'Ludmila', 'Molina', '2537642325', '3634934846', 1 UNION

SELECT 'aux', 'Carmen', 'Gutierrez', '1883932511', '1463916347', 1 UNION

SELECT 'aux', 'Pedro', 'Rodriguez', '2193823927', '1171726873', 1 UNION

SELECT 'aux', 'Marcelo', 'Montenegro', '3919513160', '1352132021', 1 UNION

SELECT 'aux', 'Antonio', 'Pinto', '3088035356', '2542641627', 1 UNION

SELECT 'aux', 'Esther', 'Bañez', '2499236535', '2714622204', 1 UNION

SELECT 'aux', 'Damian', 'Fernandez', '1933540787', '1475840565', 1 UNION

SELECT 'aux', 'Miguel', 'Fernandez', '1404441789', '3112341877', 1 UNION

SELECT 'aux', 'Ismaél', 'Fernandez', '4194441149', '2305733794', 1 UNION

SELECT 'aux', 'Alberto', 'Radnikov', '1447218489', '3132635001', 1 UNION

SELECT 'aux', 'Miguel', 'Pogonza', '3758524466', '3330018224', 1 UNION

SELECT 'aux', 'Patricia', 'Gomez', '4019427140', '1460811046', 1 UNION

SELECT 'aux', 'Lucila', 'de Lourdes', '1528526613', '2751324590', 1 UNION

SELECT 'aux', 'Ludmila', 'Montenegro', '2512526492', '2041722666', 1 UNION

SELECT 'aux', 'Mateo', 'Smith', '3847810620', '3345838843', 1 UNION

SELECT 'aux', 'Esther', 'Rodriguez', '1648810416', '3736213134', 1 UNION

SELECT 'aux', 'Emmanuel', 'Correa', '2294842746', '3467438542', 1 UNION

SELECT 'aux', 'Carmen', 'Buenafuente', '1541323245', '3502211745', 1 UNION

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SELECT 'aux', 'Miguel', 'Rodriguez', '2906732072', '3165224903', 1 UNION

SELECT 'aux', 'Ana', 'Radnikov', '2792913042', '1741342211', 1

INSERT INTO TCP\_por\_TA(legajo\_TCP, codigo\_TA)

SELECT '19000', 'B757' UNION

SELECT '19000', 'B757' UNION

SELECT '19001', 'B757' UNION

SELECT '19002', 'B777' UNION

SELECT '19002', 'B757' UNION

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SELECT '19004', 'A320' UNION

SELECT '19005', 'B757' UNION

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SELECT '19011', 'B747' UNION

SELECT '19012', 'A320' UNION

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SELECT '19013', 'B777' UNION

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SELECT '19014', 'B757' UNION

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SELECT '19015', 'B747' UNION

SELECT '19016', 'A320' UNION

SELECT '19017', 'B757' UNION

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SELECT '19019', 'B757' UNION

SELECT '19020', 'B747' UNION

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SELECT '19238', 'B747' UNION

SELECT '19239', 'B777'

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GRU')+1

WHERE codigo\_ATO='GRU'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'BAO-123', 'A320', 'GRU' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GRU'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GIG')+1

WHERE codigo\_ATO='GIG'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'MAT-584', 'A320', 'GIG' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GIG'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MVD')+1

WHERE codigo\_ATO='MVD'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'TEO-119', 'A320', 'MVD' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MVD'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE')+1

WHERE codigo\_ATO='EZE'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'SOS-794', 'A320', 'EZE' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE')+1

WHERE codigo\_ATO='EZE'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'UNP-711', 'A320', 'EZE' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MAD')+1

WHERE codigo\_ATO='MAD'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'EDR-765', 'B747', 'MAD' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MAD'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GRU')+1

WHERE codigo\_ATO='GRU'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'RAS-484', 'B747', 'GRU' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GRU'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='LHR')+1

WHERE codigo\_ATO='LHR'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'STA-648', 'B747', 'LHR' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='LHR'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE')+1

WHERE codigo\_ATO='EZE'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'ASA-481', 'B747', 'EZE' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MVD')+1

WHERE codigo\_ATO='MVD'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'LTA-481', 'B747', 'MVD' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MVD'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='ROM')+1

WHERE codigo\_ATO='ROM'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'CUN-481', 'B747', 'ROM' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='ROM'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='SVO')+1

WHERE codigo\_ATO='SVO'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'NAS-791', 'B757', 'SVO' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='SVO'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='DFW')+1

WHERE codigo\_ATO='DFW'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'DEJ-481', 'B757', 'DFW' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='DFW'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MEX')+1

WHERE codigo\_ATO='MEX'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'ATE-165', 'B757', 'MEX' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MEX'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GRU')+1

WHERE codigo\_ATO='GRU'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'DEJ-186', 'B757', 'GRU' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='GRU'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='COR')+1

WHERE codigo\_ATO='COR'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'ODE-898', 'B777', 'COR' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='COR'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MAD')+1

WHERE codigo\_ATO='MAD'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'RXD-481', 'B777', 'MAD' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='MAD'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='HND')+1

WHERE codigo\_ATO='HND'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'FLA-891', 'B777', 'HND' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='HND'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='SCL')+1

WHERE codigo\_ATO='SCL'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'COY-894', 'B777', 'SCL' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='SCL'), 1

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='BRC')+1

WHERE codigo\_ATO='BRC'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT 'ATA-103', 'B777', 'BRC' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='BRC'), 1

INSERT rutas (codigo\_RTA, ATOpartida\_RTA, ATOarrivo\_RTA, ETA\_RTA, posta\_RTA)

SELECT 'EZE-BRC', 'EZE', 'BRC', 2, 1 UNION

SELECT 'BRC-EZE', 'BRC', 'EZE', 2, 1 UNION

SELECT 'EZE-COR', 'EZE', 'COR', 1, 1 UNION

SELECT 'COR-EZE', 'COR', 'EZE', 1, 1 UNION

SELECT 'EZE-GIG', 'EZE', 'GIG', 3, 1 UNION

SELECT 'GIG-EZE', 'GIG', 'EZE', 3, 1 UNION

SELECT 'EZE-GRU', 'EZE', 'GRU', 2, 1 UNION

SELECT 'GRU-EZE', 'GRU', 'EZE', 2, 1 UNION

SELECT 'EZE-SCL', 'EZE', 'SCL', 2, 1 UNION

SELECT 'SCL-EZE', 'SCL', 'EZE', 2, 1 UNION

SELECT 'EZE-MVD', 'EZE', 'MVD', 1, 1 UNION

SELECT 'MVD-EZE', 'MVD', 'EZE', 1, 1 UNION

SELECT 'EZE-MAD', 'EZE', 'MAD', 13, 36 UNION

SELECT 'MAD-EZE', 'MAD', 'EZE', 13, 36 UNION

SELECT 'EZE-JKF', 'EZE', 'JKF', 11, 12 UNION

SELECT 'JKF-EZE', 'JKF', 'EZE', 11, 12 UNION

SELECT 'EZE-DFW', 'EZE', 'DFW', 11, 12 UNION

SELECT 'DFW-EZE', 'DFW', 'EZE', 11, 12 UNION

SELECT 'EZE-CDG', 'EZE', 'CDG', 14, 36 UNION

SELECT 'CDG-EZE', 'CDG', 'EZE', 14, 36 UNION

SELECT 'EZE-LHR', 'EZE', 'LHR', 14, 36 UNION

SELECT 'LHR-EZE', 'LHR', 'EZE', 14, 36 UNION

SELECT 'EZE-ROM', 'EZE', 'ROM', 13, 36 UNION

SELECT 'ROM-EZE', 'ROM', 'EZE', 13, 36 UNION

SELECT 'EZE-HND', 'EZE', 'HND', 15, 36 UNION

SELECT 'HND-EZE', 'HND', 'EZE', 15, 36 UNION

SELECT 'EZE-MEX', 'EZE', 'MEX', 9, 12 UNION

SELECT 'MEX-EZE', 'MEX', 'EZE', 9, 12 UNION

SELECT 'EZE-SVO', 'EZE', 'SVO', 18, 36 UNION

SELECT 'SVO-EZE', 'SVO', 'EZE', 18, 36

INSERT RTA\_por\_TA (codigo\_RTA, codigo\_TA)

SELECT 'EZE-BRC', 'A320' UNION

SELECT 'BRC-EZE', 'A320' UNION

SELECT 'EZE-COR', 'A320' UNION

SELECT 'COR-EZE', 'A320' UNION

SELECT 'EZE-GIG', 'A320' UNION

SELECT 'GIG-EZE', 'A320' UNION

SELECT 'EZE-GRU', 'A320' UNION

SELECT 'GRU-EZE', 'A320' UNION

SELECT 'EZE-SCL', 'A320' UNION

SELECT 'SCL-EZE', 'A320' UNION

SELECT 'EZE-MVD', 'A320' UNION

SELECT 'MVD-EZE', 'A320' UNION

SELECT 'EZE-BRC', 'B737' UNION

SELECT 'BRC-EZE', 'B737' UNION

SELECT 'EZE-COR', 'B737' UNION

SELECT 'COR-EZE', 'B737' UNION

SELECT 'EZE-GIG', 'B737' UNION

SELECT 'GIG-EZE', 'B737' UNION

SELECT 'EZE-GRU', 'B737' UNION

SELECT 'GRU-EZE', 'B737' UNION

SELECT 'EZE-SCL', 'B737' UNION

SELECT 'SCL-EZE', 'B737' UNION

SELECT 'EZE-MVD', 'B737' UNION

SELECT 'MVD-EZE', 'B737' UNION

SELECT 'EZE-BRC', 'E170' UNION

SELECT 'BRC-EZE', 'E170' UNION

SELECT 'EZE-COR', 'E170' UNION

SELECT 'COR-EZE', 'E170' UNION

SELECT 'EZE-GIG', 'E170' UNION

SELECT 'GIG-EZE', 'E170' UNION

SELECT 'EZE-GRU', 'E170' UNION

SELECT 'GRU-EZE', 'E170' UNION

SELECT 'EZE-SCL', 'E170' UNION

SELECT 'SCL-EZE', 'E170' UNION

SELECT 'EZE-MVD', 'E170' UNION

SELECT 'MVD-EZE', 'E170' UNION

SELECT 'EZE-BRC', 'MD80' UNION

SELECT 'BRC-EZE', 'MD80' UNION

SELECT 'EZE-COR', 'MD80' UNION

SELECT 'COR-EZE', 'MD80' UNION

SELECT 'EZE-GIG', 'MD80' UNION

SELECT 'GIG-EZE', 'MD80' UNION

SELECT 'EZE-GRU', 'MD80' UNION

SELECT 'GRU-EZE', 'MD80' UNION

SELECT 'EZE-SCL', 'MD80' UNION

SELECT 'SCL-EZE', 'MD80' UNION

SELECT 'EZE-MVD', 'MD80' UNION

SELECT 'MVD-EZE', 'MD80' UNION

SELECT 'EZE-BRC', 'A330' UNION

SELECT 'BRC-EZE', 'A330' UNION

SELECT 'EZE-BRC', 'A340' UNION

SELECT 'BRC-EZE', 'A340' UNION

SELECT 'EZE-BRC', 'A380' UNION

SELECT 'BRC-EZE', 'A380' UNION

SELECT 'EZE-BRC', 'B747' UNION

SELECT 'BRC-EZE', 'B747' UNION

SELECT 'EZE-BRC', 'B757' UNION

SELECT 'BRC-EZE', 'B757' UNION

SELECT 'EZE-BRC', 'B777' UNION

SELECT 'BRC-EZE', 'B777' UNION

SELECT 'EZE-BRC', 'B787' UNION

SELECT 'BRC-EZE', 'B787' UNION

SELECT 'EZE-BRC', 'E170' UNION

SELECT 'BRC-EZE', 'E170' UNION

SELECT 'EZE-BRC', 'MD80' UNION

SELECT 'BRC-EZE', 'MD80' UNION

SELECT 'EZE-COR', 'A330' UNION

SELECT 'COR-EZE', 'A330' UNION

SELECT 'EZE-COR', 'A340' UNION

SELECT 'COR-EZE', 'A340' UNION

SELECT 'EZE-COR', 'A380' UNION

SELECT 'COR-EZE', 'A380' UNION

SELECT 'EZE-COR', 'B747' UNION

SELECT 'COR-EZE', 'B747' UNION

SELECT 'EZE-COR', 'B757' UNION

SELECT 'COR-EZE', 'B757' UNION

SELECT 'EZE-COR', 'B777' UNION

SELECT 'COR-EZE', 'B777' UNION

SELECT 'EZE-COR', 'B787' UNION

SELECT 'COR-EZE', 'B787' UNION

SELECT 'EZE-COR', 'E170' UNION

SELECT 'COR-EZE', 'E170' UNION

SELECT 'EZE-COR', 'MD80' UNION

SELECT 'COR-EZE', 'MD80' UNION

SELECT 'EZE-GIG', 'A330' UNION

SELECT 'GIG-EZE', 'A330' UNION

SELECT 'EZE-GIG', 'A340' UNION

SELECT 'GIG-EZE', 'A340' UNION

SELECT 'EZE-GIG', 'A380' UNION

SELECT 'GIG-EZE', 'A380' UNION

SELECT 'EZE-GIG', 'B747' UNION

SELECT 'GIG-EZE', 'B747' UNION

SELECT 'EZE-GIG', 'B757' UNION

SELECT 'GIG-EZE', 'B757' UNION

SELECT 'EZE-GIG', 'B777' UNION

SELECT 'GIG-EZE', 'B777' UNION

SELECT 'EZE-GIG', 'B787' UNION

SELECT 'GIG-EZE', 'B787' UNION

SELECT 'EZE-GIG', 'E170' UNION

SELECT 'GIG-EZE', 'E170' UNION

SELECT 'EZE-GIG', 'MD80' UNION

SELECT 'GIG-EZE', 'MD80' UNION

SELECT 'EZE-GRU', 'A330' UNION

SELECT 'GRU-EZE', 'A330' UNION

SELECT 'EZE-GRU', 'A340' UNION

SELECT 'GRU-EZE', 'A340' UNION

SELECT 'EZE-GRU', 'A380' UNION

SELECT 'GRU-EZE', 'A380' UNION

SELECT 'EZE-GRU', 'B747' UNION

SELECT 'GRU-EZE', 'B747' UNION

SELECT 'EZE-GRU', 'B757' UNION

SELECT 'GRU-EZE', 'B757' UNION

SELECT 'EZE-GRU', 'B777' UNION

SELECT 'GRU-EZE', 'B777' UNION

SELECT 'EZE-GRU', 'B787' UNION

SELECT 'GRU-EZE', 'B787' UNION

SELECT 'EZE-GRU', 'E170' UNION

SELECT 'GRU-EZE', 'E170' UNION

SELECT 'EZE-GRU', 'MD80' UNION

SELECT 'GRU-EZE', 'MD80' UNION

SELECT 'EZE-SCL', 'A330' UNION

SELECT 'SCL-EZE', 'A330' UNION

SELECT 'EZE-SCL', 'A340' UNION

SELECT 'SCL-EZE', 'A340' UNION

SELECT 'EZE-SCL', 'A380' UNION

SELECT 'SCL-EZE', 'A380' UNION

SELECT 'EZE-SCL', 'B747' UNION

SELECT 'SCL-EZE', 'B747' UNION

SELECT 'EZE-SCL', 'B757' UNION

SELECT 'SCL-EZE', 'B757' UNION

SELECT 'EZE-SCL', 'B777' UNION

SELECT 'SCL-EZE', 'B777' UNION

SELECT 'EZE-SCL', 'B787' UNION

SELECT 'SCL-EZE', 'B787' UNION

SELECT 'EZE-SCL', 'E170' UNION

SELECT 'SCL-EZE', 'E170' UNION

SELECT 'EZE-SCL', 'MD80' UNION

SELECT 'SCL-EZE', 'MD80' UNION

SELECT 'EZE-MVD', 'A330' UNION

SELECT 'MVD-EZE', 'A330' UNION

SELECT 'EZE-MVD', 'A340' UNION

SELECT 'MVD-EZE', 'A340' UNION

SELECT 'EZE-MVD', 'A380' UNION

SELECT 'MVD-EZE', 'A380' UNION

SELECT 'EZE-MVD', 'B747' UNION

SELECT 'MVD-EZE', 'B747' UNION

SELECT 'EZE-MVD', 'B757' UNION

SELECT 'MVD-EZE', 'B757' UNION

SELECT 'EZE-MVD', 'B777' UNION

SELECT 'MVD-EZE', 'B777' UNION

SELECT 'EZE-MVD', 'B787' UNION

SELECT 'MVD-EZE', 'B787' UNION

SELECT 'EZE-MVD', 'E170' UNION

SELECT 'MVD-EZE', 'E170' UNION

SELECT 'EZE-MVD', 'MD80' UNION

SELECT 'MVD-EZE', 'MD80'

INSERT usuarios (usuario\_USU, contrasena\_USU, nombre\_USU, apellido\_USU, correo\_USU, telefono\_USU)

SELECT 'root', '123', 'ROOT', 'ROOT', 'root@gmail.com', '123123123'

# Triggers

CREATE TRIGGER sumar\_avion\_en\_aeropuerto ON aviones

AFTER UPDATE

AS

BEGIN

SET NOCOUNT ON;

IF UPDATE (ultimo\_ATO\_programado\_AV)

BEGIN

UPDATE aeropuertos

SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO = (select ultimo\_ATO\_programado\_AV from inserted))+1

WHERE codigo\_ATO = (select ultimo\_ATO\_programado\_AV from inserted)

UPDATE aviones

SET posicion\_AV=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO = (select ultimo\_ATO\_programado\_AV from inserted))

WHERE aviones.codigo\_AV=(select codigo\_AV from inserted)

END

END

CREATE TRIGGER TR\_SEGURIDAD

ON DATABASE FOR DROP\_TABLE, ALTER\_TABLE

AS BEGIN

RAISERROR ('No está permitido borrar ni

modificar tablas !' , 16, 1) ROLLBACK TRANSACTION END

# Procedure

CREATE PROCEDURE agregarAvion

@codigo varchar(10),

@fabricante varchar(50),

@modelo varchar(50)

as

UPDATE aeropuertos SET contador\_ATO=(SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE')+1

WHERE codigo\_ATO='EZE'

INSERT INTO aviones(codigo\_AV, tipo\_AV, ultimo\_ATO\_programado\_AV, ultima\_fecha\_programada\_AV, posicion\_AV, baja\_AV)

SELECT @codigo, (select codigo\_TA from tipos\_de\_aviones where fabricante\_TA = @fabricante and modelo\_TA = @modelo), 'EZE' , GETDATE(), (SELECT contador\_ATO FROM aeropuertos WHERE codigo\_ATO='EZE'), 1

GO

CREATE PROCEDURE GenerarBkp

@direccion nvarchar(500)

AS

SET NOCOUNT ON;

BACKUP DATABASE Airport\_Manager

TO DISK = @direccion

WITH FORMAT,

MEDIANAME = 'C\_Airport\_Manager',

NAME = 'Full Backup of Airport\_Manager';

INSERT INTO backups (fecha\_bkp, direccion\_bkp)

SELECT GETDATE(), @direccion

GO

# View

CREATE VIEW Listar\_planes\_de\_vuelo

AS

SELECT a.codigo\_VLO AS Vuelo, d.ATOpartida\_RTA AS [Aeropuerto de partida], d.ATOarrivo\_RTA AS [Aeropuerto de llegada], d.ETA\_RTA AS [Tiempo de vuelo (En horas)], b.fecha\_salida\_VLO AS [Fecha de partida], a.codigo\_AV AS Avion, e.modelo\_TA AS Modelo , e.descripcion\_TA AS Descripción from VLO\_por\_AV AS a inner join vuelos AS b ON a.codigo\_VLO = b.codigo\_VLO inner join aviones AS c ON c.codigo\_AV = a.codigo\_AV inner join rutas AS d ON d.codigo\_RTA = b.codigo\_RTA inner join tipos\_de\_aviones as E ON c.tipo\_AV = e.codigo\_TA where a.codigo\_VLO like '%'