CREATE TABLE route

(

route\_id NUMBER PRIMARY KEY,

source\_city VARCHAR2(500),

dest\_city VARCHAR2(500),

source\_country VARCHAR2(500),

dest\_country VARCHAR2(500),

distance NUMBER

);

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

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (1, 'Grazhdanka', 'Solnechnoye', 'Russia', 'Russia', '5585');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (2, 'Mont-Laurier', 'Jiangtian', 'Canada', 'China', '879');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (3, 'Nanganumba', 'Amiens', 'Indonesia', 'France', '1723');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (4, 'Cruz', 'Zhouling', 'Portugal', 'China', '244');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (5, 'Višňové', 'Karviná', 'Czech Republic', 'Czech Republic', '25');

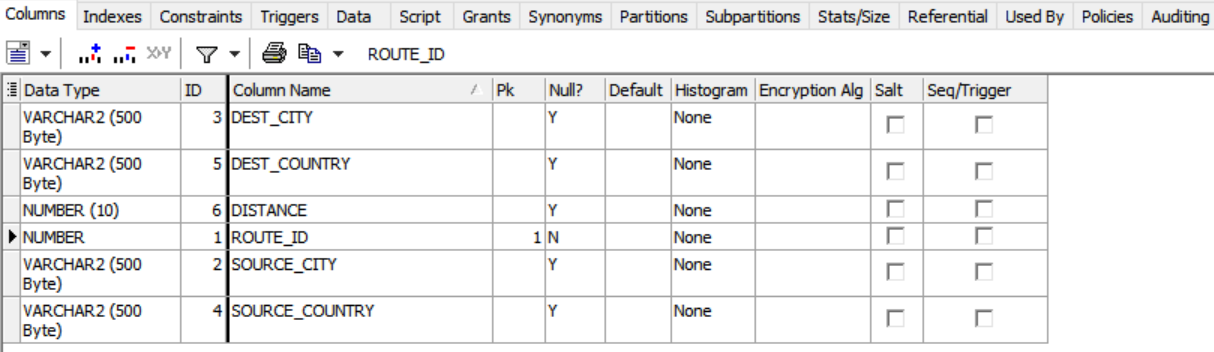
insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (6, 'Samut Sakhon', 'Joroan', 'Thailand', 'Philippines', '3800');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (7, 'Santa Rosa de Copán', 'Malandag', 'Honduras', 'Philippines', '2118');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (8, 'Laocheng', 'Bochov', 'China', 'Czech Republic', '2569');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (9, 'Herby', 'Vila Velha', 'Poland', 'Brazil', '36');

insert into route (route\_id, source\_city, dest\_city, source\_country, dest\_country, distance) values (10, 'Anin', 'Solok', 'Indonesia', 'Indonesia', '981');



CREATE TABLE aircraft

(

aircraft\_id NUMBER PRIMARY KEY,

model VARCHAR2(500),

type VARCHAR2(500),

manufacturer VARCHAR2(500),

capacity NUMBER(10)

);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (1, 'Paseo', 'Piseo-ri (Muan)', 'Toyota', 645);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (2, 'DTS', 'El Banco', 'Cadillac', 530);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (3, 'Trooper', 'Kuria', 'Isuzu', 827);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (4, 'NMA', 'LSK', 'ABC', 1000);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (5, '80', 'Esa''ala', 'Audi', 701);

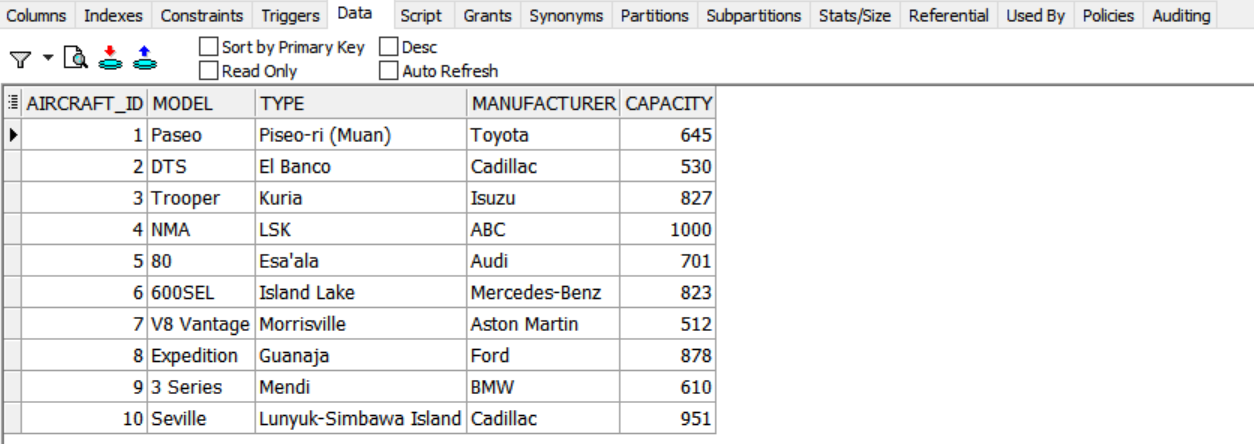
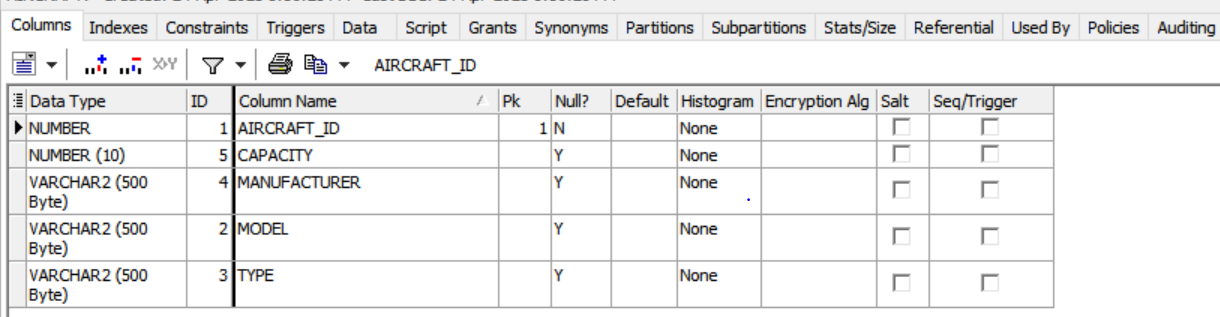
insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (6, '600SEL', 'Island Lake', 'Mercedes-Benz', 823);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (7, 'V8 Vantage', 'Morrisville', 'Aston Martin', 512);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (8, 'Expedition', 'Guanaja', 'Ford', 878);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (9, '3 Series', 'Mendi', 'BMW', 610);

insert into aircraft (aircraft\_id, model, type, manufacturer, capacity) values (10, 'Seville', 'Lunyuk-Simbawa Island', 'Cadillac', 951);



CREATE TABLE airport

(

airport\_id NUMBER PRIMARY KEY,

name VARCHAR2(1000),

city VARCHAR2(1000),

country VARCHAR2(1000)

);

insert into airport (airport\_id, name, city, country) values (1, 'Drummond Island Airport', 'Arruda dos Vinhos', 'Portugal');

insert into airport (airport\_id, name, city, country) values (2, 'Sócrates Rezende Airport', 'Nanae', 'Japan');

insert into airport (airport\_id, name, city, country) values (3, 'Cairo\_air', 'Egypt', 'Cairo');

insert into airport (airport\_id, name, city, country) values (4, 'Blackbushe Airport', 'Ghazni', 'Afghanistan');

insert into airport (airport\_id, name, city, country) values (5, 'Montluçon-Guéret Airport', 'Yangzizhou', 'China');

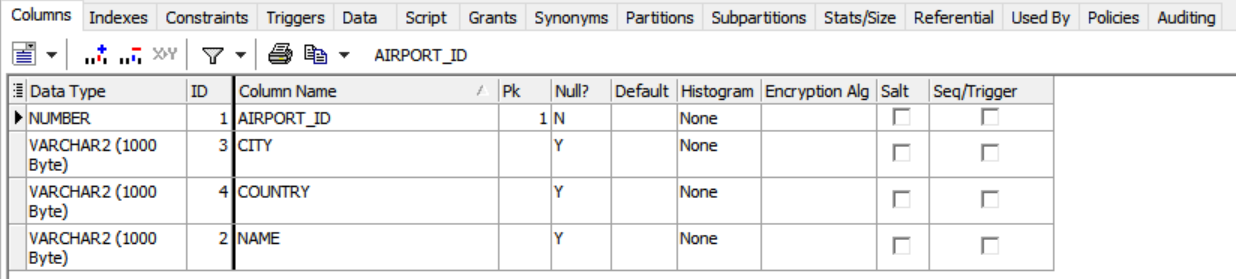
insert into airport (airport\_id, name, city, country) values (6, 'Brigadier Mayor D Cesar Raul Ojeda Airport', 'Gangmei', 'China');

insert into airport (airport\_id, name, city, country) values (7, 'Tumbler Ridge Airport', 'São Domingos', 'Cape Verde');

insert into airport (airport\_id, name, city, country) values (8, 'Tchongorove Airport', 'Khóra', 'Greece');

insert into airport (airport\_id, name, city, country) values (9, 'Verona Villafranca Airport', 'Kakamigahara', 'Japan');

insert into airport (airport\_id, name, city, country) values (10, 'Moosonee Airport', 'Susuman', 'Russia');



CREATE TABLE crew\_member

(

member\_id NUMBER PRIMARY KEY,

first\_name VARCHAR2(1000),

last\_name VARCHAR2(1000),

gender VARCHAR2(1000),

job\_type VARCHAR2(1000),

hire\_date DATE,

dob DATE,

country VARCHAR2(1000),

email VARCHAR2(1000),

phone VARCHAR2(1000)

);

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (1, 'Jolene', 'Stuart', 'Female', 'Administrative Assistant I', to\_date(‘03-04-2010’,’dd-mm-yyyy’),to\_date(‘02-01-1999’,’dd-mm-yyyy’), 'Chile', 'jstuart0@mozilla.com', '493-219-0862');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (2, 'Ralph', 'Froude', 'Male', 'Paralegal', to\_date(‘04-08-2019’,’dd-mm-yyyy’),to\_date(‘03-03-1980’,’dd-mm-yyyy’), 'Tanzania', 'rfroude1@usgs.gov', '565-720-6902');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (3, 'Thaxter', 'Cubley', 'Male', 'Research Associate', to\_date(‘06-09-2020’,’dd-mm-yyyy’),to\_date(‘04-08-2000’,’dd-mm-yyyy’), 'China', 'tcubley2@washington.edu', '778-854-6819');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (4, 'Dorena', 'Midden', 'Female', 'Biostatistician III',to\_date(‘06-09-2021’,’dd-mm-yyyy’),to\_date(‘04-09-1980’,’dd-mm-yyyy’), 'Afghanistan', 'dmidden3@ustream.tv', '702-939-7850');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (5, 'Bethina', 'Roony', 'Female', 'Paralegal', to\_date(‘06-09-2009’,’dd-mm-yyyy’),to\_date(‘05-08-1970’,’dd-mm-yyyy’), 'Poland', 'broony4@slashdot.org', '442-119-4079');

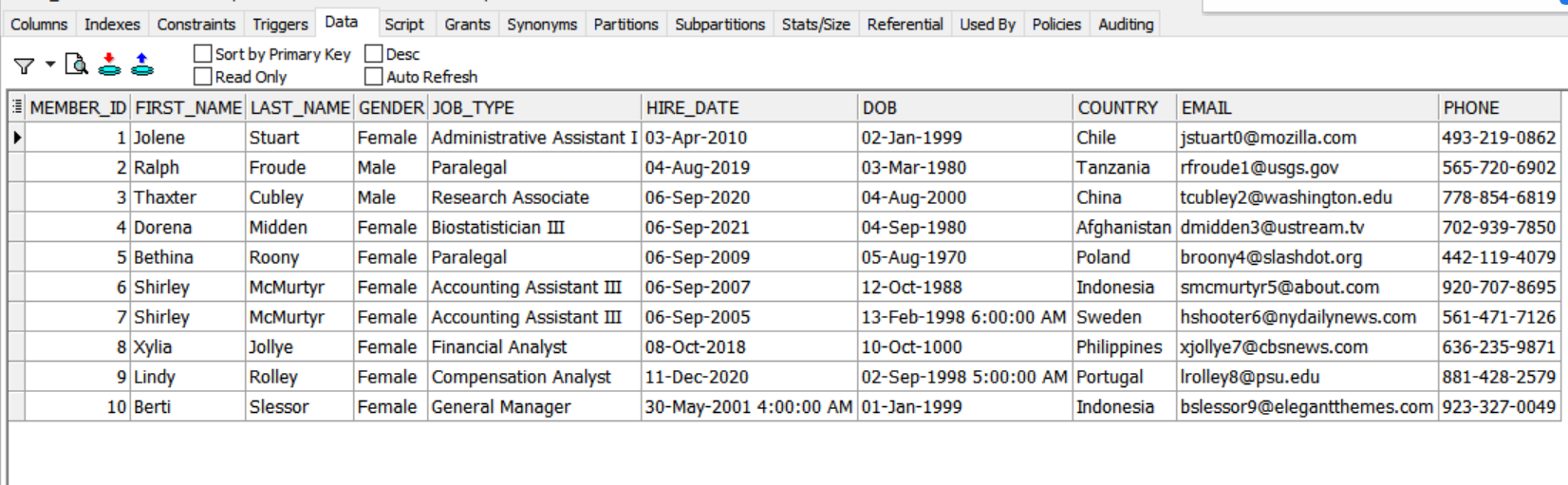
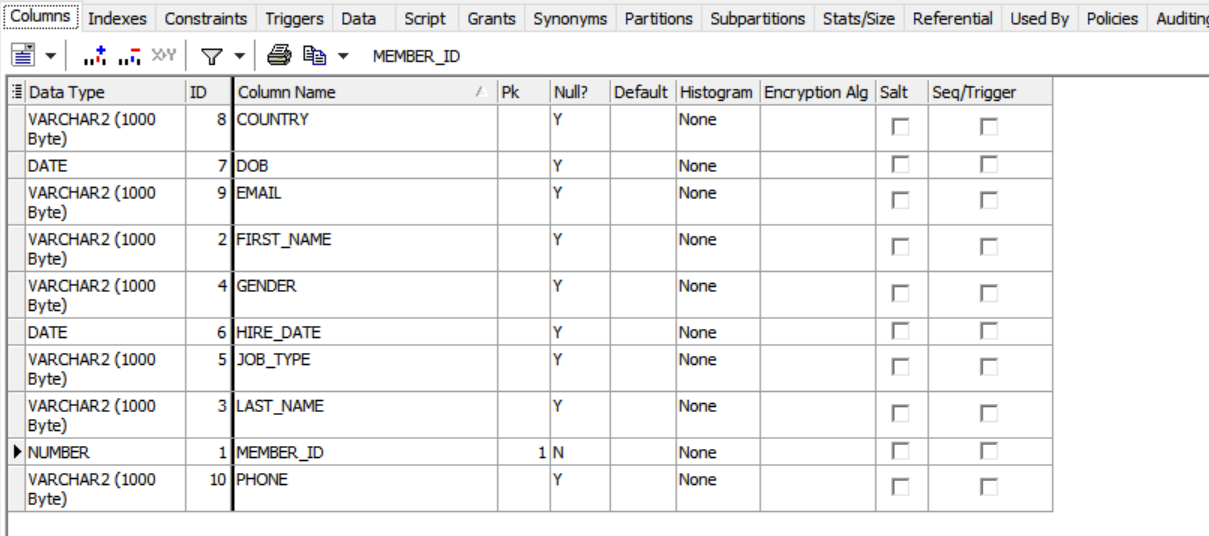
insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (6, 'Shirley', 'McMurtyr', 'Female', 'Accounting Assistant III', to\_date(‘06-09-2007’,’dd-mm-yyyy’),to\_date(‘12-10-1988’,’dd-mm-yyyy’), 'Indonesia', 'smcmurtyr5@about.com', '920-707-8695');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (7, 'Shirley', 'McMurtyr', 'Female', 'Accounting Assistant III',to\_date(‘06-09-2005’,’dd-mm-yyyy’),to\_date(‘13-2-1998’,’dd-mm-yyyy’), 'Sweden', 'hshooter6@nydailynews.com', '561-471-7126');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (8, 'Xylia', 'Jollye', 'Female', 'Financial Analyst',to\_date(‘08-10-2018’,’dd-mm-yyyy’),to\_date(‘10-10-1973’,’dd-mm-yyyy’), 'Philippines', 'xjollye7@cbsnews.com', '636-235-9871');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (9, 'Lindy', 'Rolley', 'Female', 'Compensation Analyst', to\_date(‘11-12-2020’,’dd-mm-yyyy’),to\_date(‘02-09-1998’,’dd-mm-yyyy’), 'Portugal', 'lrolley8@psu.edu', '881-428-2579');

insert into crew\_member (member\_id, first\_name, last\_name, gender, job\_type, hire\_date, dob, country, email, phone) values (10, 'Berti', 'Slessor', 'Female', 'General Manager', to\_date(‘30-05-2001’,’dd-mm-yyyy’),to\_date(‘01-01-1999’,’dd-mm-yyyy’), 'Indonesia', 'bslessor9@elegantthemes.com', '923-327-0049');

CREATE TABLE flight\_date

(

date\_id NUMBER PRIMARY KEY,

month DATE,

day NUMBER,

year NUMBER,

minute NUMBER,

hour NUMBER,

week NUMBER

);

insert into flight\_dateMONTHMONTHMONTHMONTHMONTHMONTHMONTH (date\_id, month, day, year, minute, hour, week) values (1,10, 12, 1988, 5, 18, 5);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (2, 11, 25, 1988, 41, 12, 5);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (3, 5, 30, 1988, 41, 12, 5);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (4, 6, 13, 1954, 25, 1, 3);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (5, 9, 8, 2008, 35, 9, 2);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (6, 4, 19, 1984, 60, 12, 5);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (7, 3, 18, 2014, 20, 16, 2);

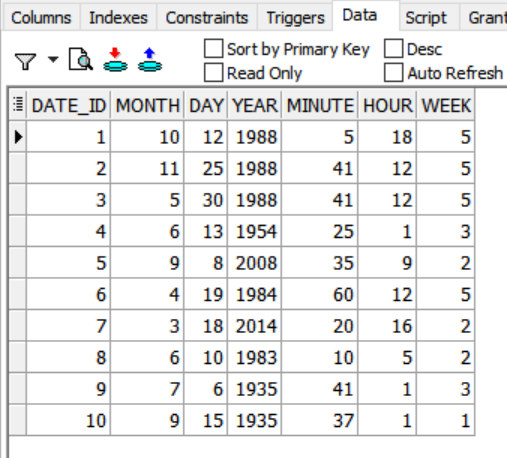
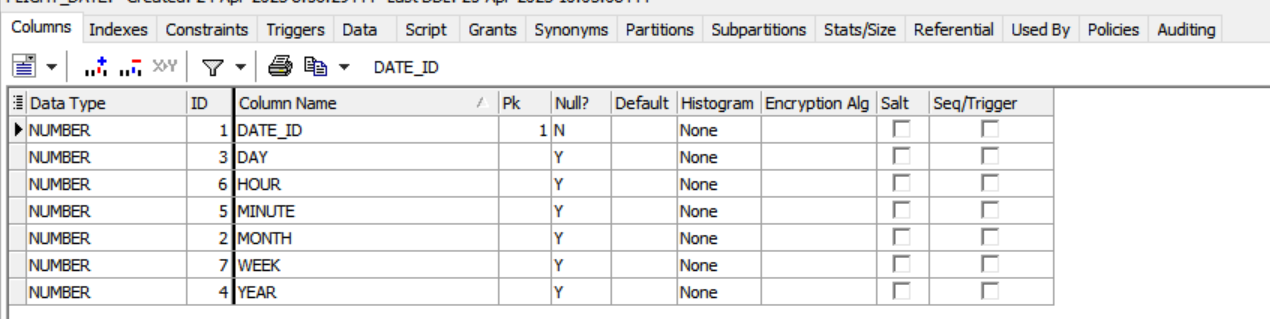
insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (8, 6, 10, 1983, 10, 5, 2);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (9, 7, 6, 1935, 41, 1, 3);

insert into flight\_date (date\_id, month, day, year, minute, hour, week) values (10, 4, 15, 1935, 37, 1, 1);

ALTER TABLE flight\_date

MODIFY month number ;



CREATE TABLE customer

(

customer\_id NUMBER PRIMARY KEY,

first\_name VARCHAR2(1000),

last\_name VARCHAR2(1000),

gender VARCHAR2(1000),

city VARCHAR2(1000),

country VARCHAR2(1000),

dob DATE,

email VARCHAR2(1000),

phone VARCHAR2(1000),

status VARCHAR2(1000)

);

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (11, 'Joyce', 'McKernon', 'F', 'Łomża', 'Poland',to\_date('03-2-1999','dd-mm-yyyy'), 'jmckernon0@dmoz.org', '863-751-0797', 'good');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (2, null, null, null, null, null, null, 'akondratenya1@google.pl', '635-544-2609', null);

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (3, 'Carlita', 'Doswell', 'F', 'Nusajaya', 'Indonesia', to\_date('03-2-1999','dd-mm-yyyy'), 'cdoswell2@feedburner.com', '867-830-9917', 'null');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (4, 'Bob', 'Mulrean', 'M', 'La Suiza', 'Costa Rica', to\_date('03-2-1999','dd-mm-yyyy'), 'bmulrean3@examiner.com', '253-665-4073', 'good');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (5, 'Jereme', 'Stadden', 'M', 'Talun', 'Indonesia', to\_date('03-2-1999','dd-mm-yyyy'), 'jstadden4@google.ca', '566-833-6876', 'good');

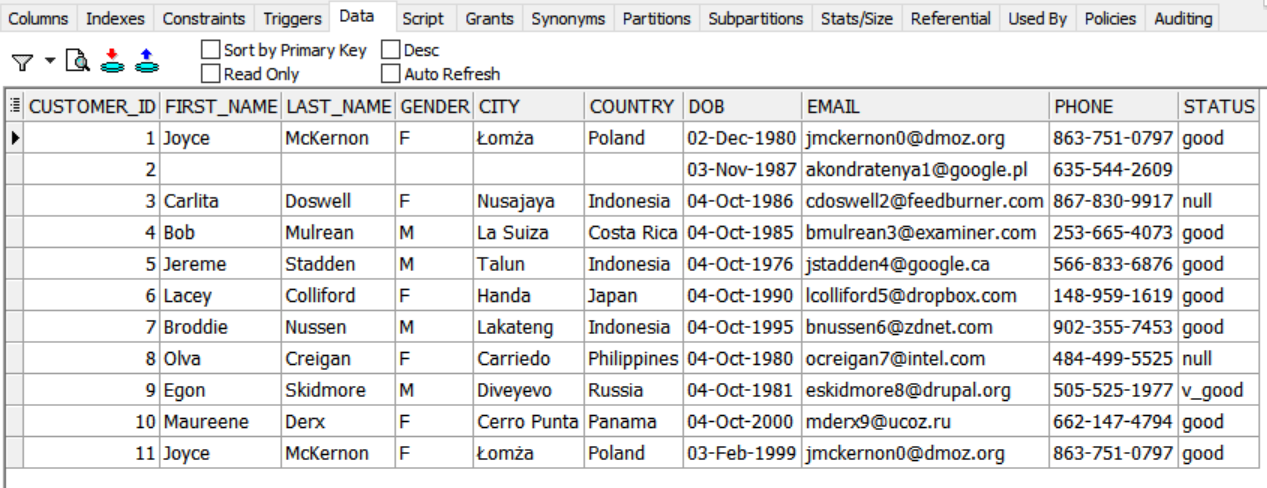
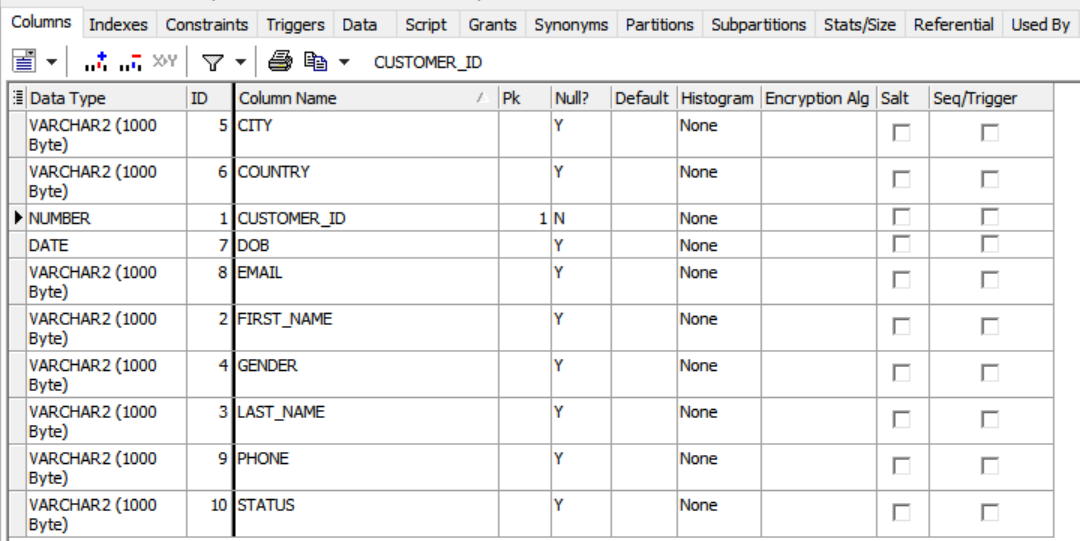
insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (6, 'Lacey', 'Colliford', 'F', 'Handa', 'Japan', to\_date('03-2-1999','dd-mm-yyyy'), 'lcolliford5@dropbox.com', '148-959-1619', 'good');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (7, 'Broddie', 'Nussen', 'M', 'Lakateng', 'Indonesia', to\_date('03-2-1999','dd-mm-yyyy'), 'bnussen6@zdnet.com', '902-355-7453', 'good');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (8, 'Olva', 'Creigan', 'F', 'Carriedo', 'Philippines', to\_date('03-2-1999','dd-mm-yyyy'), 'ocreigan7@intel.com', '484-499-5525', 'null');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (9, 'Egon', 'Skidmore', 'M', 'Diveyevo', 'Russia', to\_date('03-2-1999','dd-mm-yyyy'), 'eskidmore8@drupal.org', '505-525-1977', 'v\_good');

insert into customer (customer\_id, first\_name, last\_name, gender, city, country, dob, email, phone, status) values (10, 'Maureene', 'Derx', 'F', 'Cerro Punta', 'Panama',null, 'mderx9@ucoz.ru', '662-147-4794', 'good');



CREATE TABLE channel

(

channel\_id NUMBER PRIMARY KEY,

name VARCHAR2(1000),

description VARCHAR2(1000),

status VARCHAR2(1000)

);

insert into channel (channel\_id, name, description, status) values (1, 'text', 'f', 'bad');

insert into channel (channel\_id, name, description, status) values (2, 'text', 'f', 'good');

insert into channel (channel\_id, name, description, status) values (3, 'mobile app', 'l', 'good');

insert into channel (channel\_id, name, description, status) values (4, 'mobile app', 'l', 'bad');

insert into channel (channel\_id, name, description, status) values (5, 'mobile app', 'f', 'good');

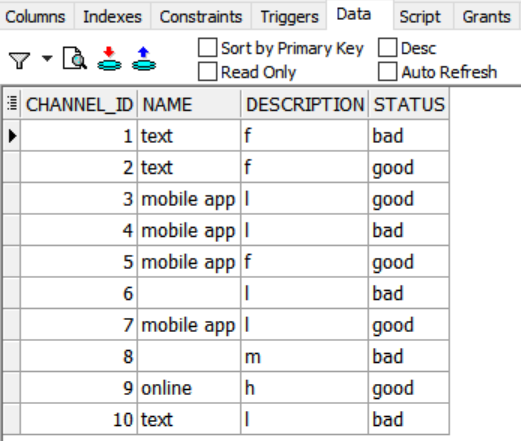
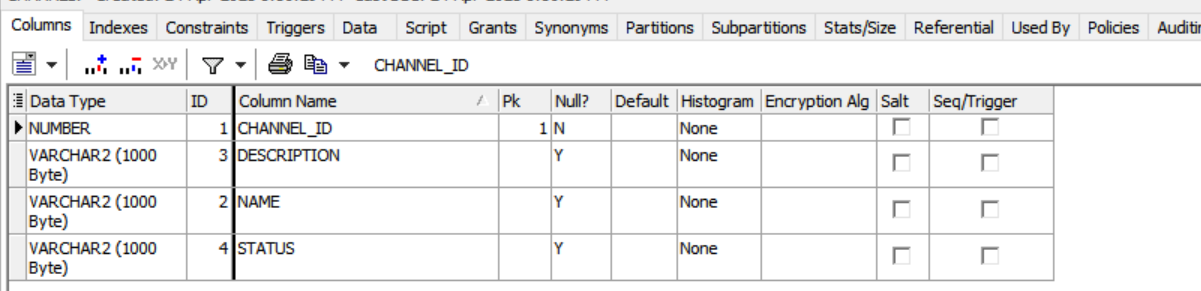
insert into channel (channel\_id, name, description, status) values (6, null, 'l', 'bad');

insert into channel (channel\_id, name, description, status) values (7, 'mobile app', 'l', 'good');

insert into channel (channel\_id, name, description, status) values (8, null, 'm', 'bad');

insert into channel (channel\_id, name, description, status) values (9, 'online', 'h', 'good');

insert into channel (channel\_id, name, description, status) values (10, 'text', 'l', 'bad');



CREATE TABLE fare\_class

(

fare\_class\_id NUMBER PRIMARY KEY,

name VARCHAR2(1000),

description VARCHAR2(1000)

);

insert into fare\_class (fare\_class\_id, name, description) values (1, 'z', null);

insert into fare\_class (fare\_class\_id, name, description) values (2, 'x', null);

insert into fare\_class (fare\_class\_id, name, description) values (3, 'x', null);

insert into fare\_class (fare\_class\_id, name, description) values (4, 'y', null);

insert into fare\_class (fare\_class\_id, name, description) values (5, 'z', null);

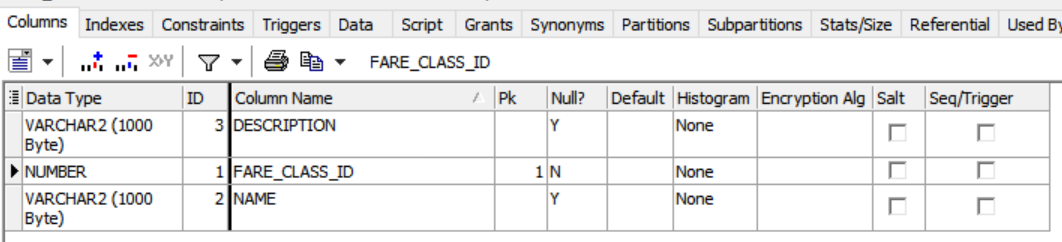
insert into fare\_class (fare\_class\_id, name, description) values (6, 'y', null);

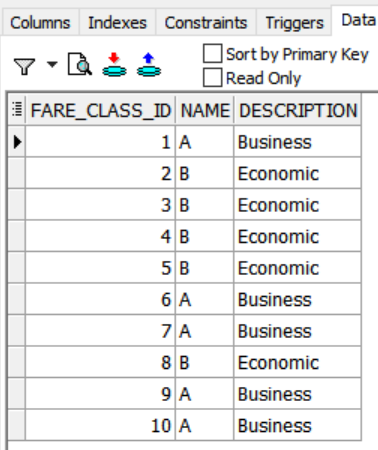
insert into fare\_class (fare\_class\_id, name, description) values (7, 'z', null);

insert into fare\_class (fare\_class\_id, name, description) values (8, 'y', null);

insert into fare\_class (fare\_class\_id, name, description) values (9, 'y', null);

insert into fare\_class (fare\_class\_id, name, description) values (10, 'y', null);





CREATE TABLE action

(

action\_id NUMBER PRIMARY KEY,

name VARCHAR2(1000),

type VARCHAR2(1000),

description VARCHAR2(1000)

);

insert into action (action\_id, name, type, description) values (1, null, 'n', null);

insert into action (action\_id, name, type, description) values (2, 'bad\_review', 'n', null);

insert into action (action\_id, name, type, description) values (3, 'bad\_review', 'o', ‘replace’);

insert into action (action\_id, name, type, description) values (4, 'bad\_review', 'o', ‘replace’);

insert into action (action\_id, name, type, description) values (5, 'bad\_review', 'n', ‘replace’);

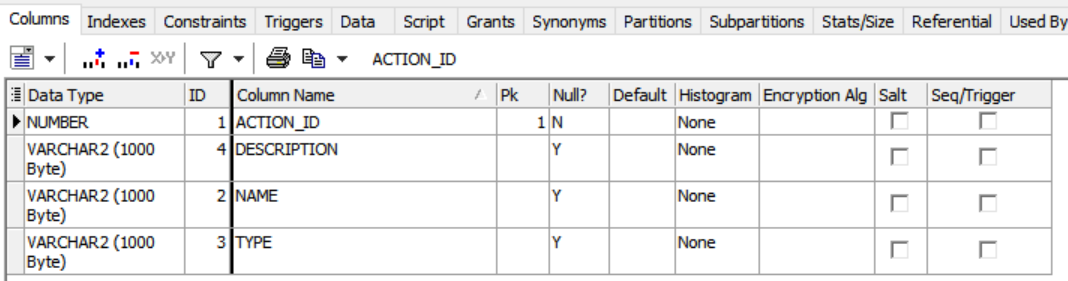
insert into action (action\_id, name, type, description) values (6, 'bad\_review', 'p', ‘replace’);

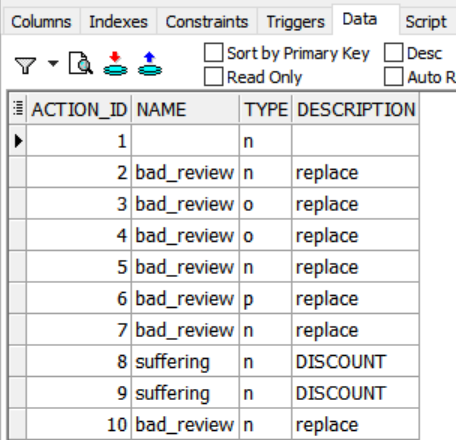
insert into action (action\_id, name, type, description) values (7, 'bad\_review', 'n', ‘replace’);

insert into action (action\_id, name, type, description) values (8, 'suffering', 'n', ‘discount);

insert into action (action\_id, name, type, description) values (9, 'suffering', 'n', ‘discount’);

insert into action (action\_id, name, type, description) values (10, 'bad\_review', 'n', ‘replace);





CREATE TABLE upgrade

(

upgrade\_id NUMBER PRIMARY KEY,

name VARCHAR2(1000),

start\_date DATE,

end\_date DATE

);

insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (4, 'Bigtax', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (5, 'Home Ing', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

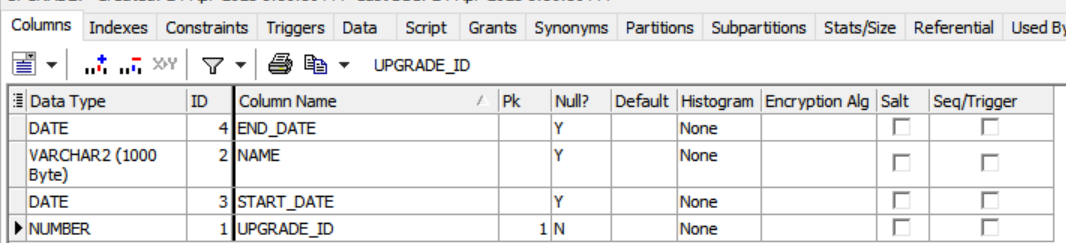
insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (6, 'Toughjoyfax', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

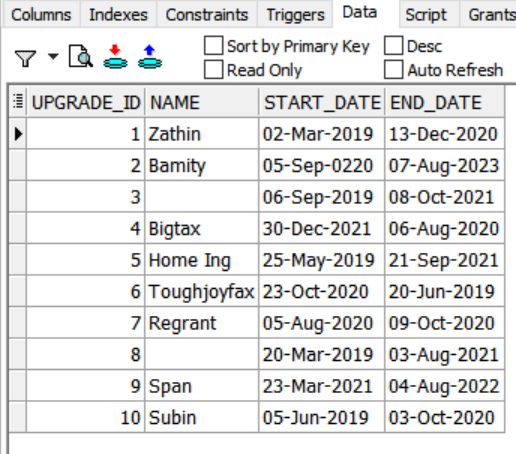
insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (7, 'Regrant', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (8, null, to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (9, 'Span', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into upgrade (upgrade\_id, name, start\_date, end\_date) values (10, 'Subin', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));





CREATE TABLE flyer\_miles

(

flyer\_miles\_id NUMBER PRIMARY KEY,

miles NUMBER(10)

);

insert into flyer\_miles (flyer\_miles\_id, miles) values (1, '3156', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (2, '3156', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (3, '8', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (4, '3156', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (5, '814', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

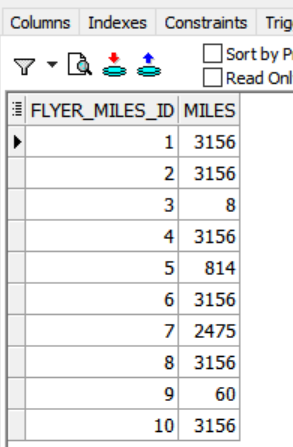
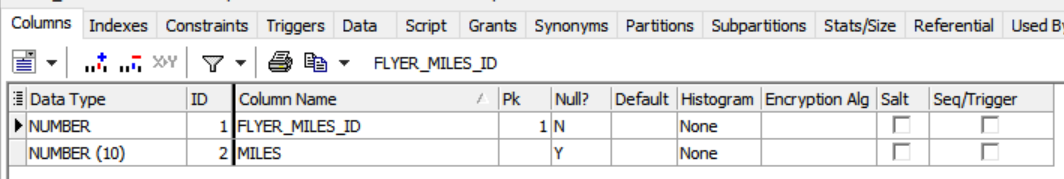
insert into flyer\_miles (flyer\_miles\_id, miles) values (6, '3156', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (7, '2475', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (8, '3156', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (9, '60', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into flyer\_miles (flyer\_miles\_id, miles) values (10, '3156', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));



CREATE TABLE promotion

(

promotion\_id NUMBER PRIMARY KEY,

name VARCHAR2(1000),

start\_date DATE,

end\_date DATE

);

insert into promotion (promotion\_id, name, start\_date, end\_date) values (1, 'Mraz-Hilpert', to\_date('03-2-2023','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into promotion (promotion\_id, name, start\_date, end\_date) values (2, 'Mraz-Hilpert', to\_date('03-2-2023,'dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into promotion (promotion\_id, name, start\_date, end\_date) values (3, 'Breitenberg-Yost', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy');

insert into promotion (promotion\_id, name, start\_date, end\_date) values (4, 'Conroy LLC', to\_date('03-2-2023','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into promotion (promotion\_id, name, start\_date, end\_date) values (5, 'Fay Inc', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy');

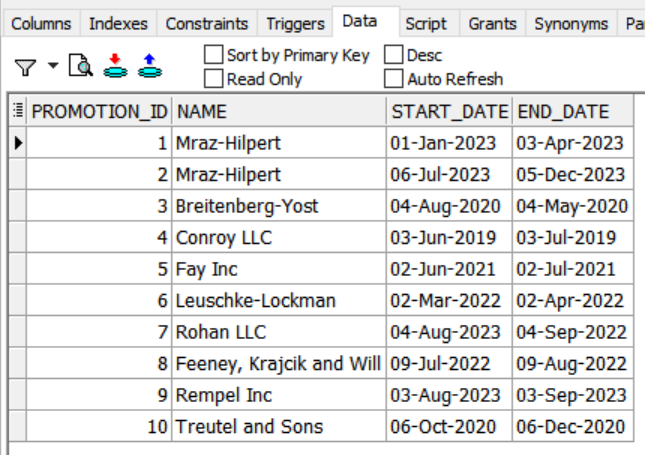
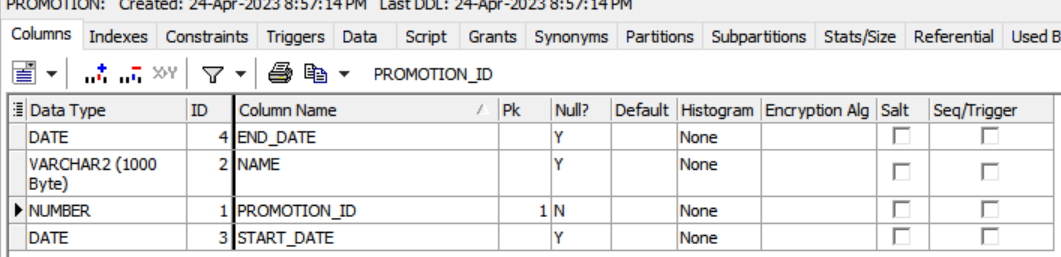
insert into promotion (promotion\_id, name, start\_date, end\_date) values (6, 'Leuschke-Lockman', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into promotion (promotion\_id, name, start\_date, end\_date) values (7, 'Rohan LLC', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into promotion (promotion\_id, name, start\_date, end\_date) values (8, 'Feeney, Krajcik and Will', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy')l);

insert into promotion (promotion\_id, name, start\_date, end\_date) values (9, 'Rempel Inc', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));

insert into promotion (promotion\_id, name, start\_date, end\_date) values (10, 'Treutel and Sons', to\_date('03-2-1999','dd-mm-yyyy'), to\_date('03-2-1999','dd-mm-yyyy'));



CREATE TABLE flight

(

flight\_id NUMBER PRIMARY KEY,

route\_id NUMBER REFERENCES route(route\_id)

);

add arriv\_time number ;

alter table flight

add depat\_time number;

insert into flight (flight\_id, route\_id) values (1, 1,12,15);

insert into flight (flight\_id, route\_id) values (2, 2,11,20);

insert into flight (flight\_id, route\_id) values (3, 3,13,24);

insert into flight (flight\_id, route\_id) values (4, 4,1,12);

insert into flight (flight\_id, route\_id) values (5, 5,5,11);

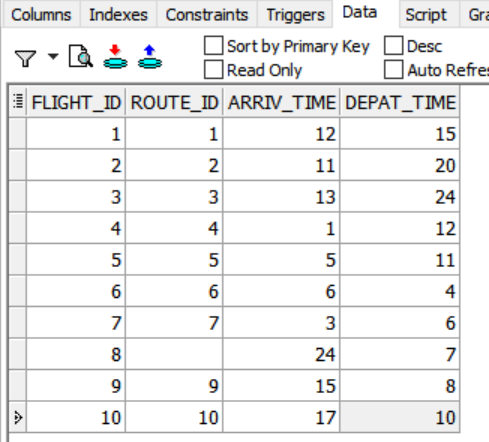
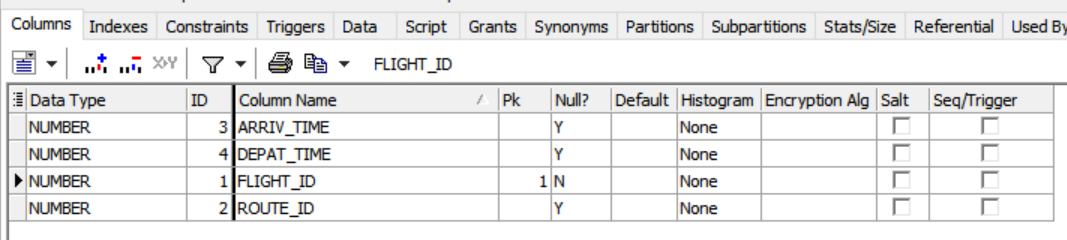
insert into flight (flight\_id, route\_id) values (6, 6,6,4);

insert into flight (flight\_id, route\_id) values (7, 7,3,6);

insert into flight (flight\_id, route\_id) values (8, null,24,7);

insert into flight (flight\_id, route\_id) values (9, 9,15,8);

insert into flight (flight\_id, route\_id) values (10, 10,17,10);



CREATE TABLE marketing\_analysis

(

ma\_id NUMBER PRIMARY KEY,

date\_id NUMBER REFERENCES flight\_date(date\_id),

customer\_id NUMBER REFERENCES customer(customer\_id),

upgrade\_id NUMBER REFERENCES upgrade(upgrade\_id),

promotion\_id NUMBER REFERENCES promotion(promotion\_id),

flyer\_miles\_earned\_id NUMBER REFERENCES flyer\_miles(flyer\_miles\_id),

flyer\_miles\_redeemed\_id NUMBER REFERENCES flyer\_miles(flyer\_miles\_id),

flight\_id NUMBER REFERENCES flight(flight\_id)

);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (1, 2, 3, 4, 5, 6, 7, 8);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (2, 2, 2, 2, 2, 2, 2, 2);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (3, 3, 3, 3, 3, 3, 3, 3);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (4, 4, 4, 4, 4, 4, 4, 4);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (5, null, null, null, null, null, null, null);

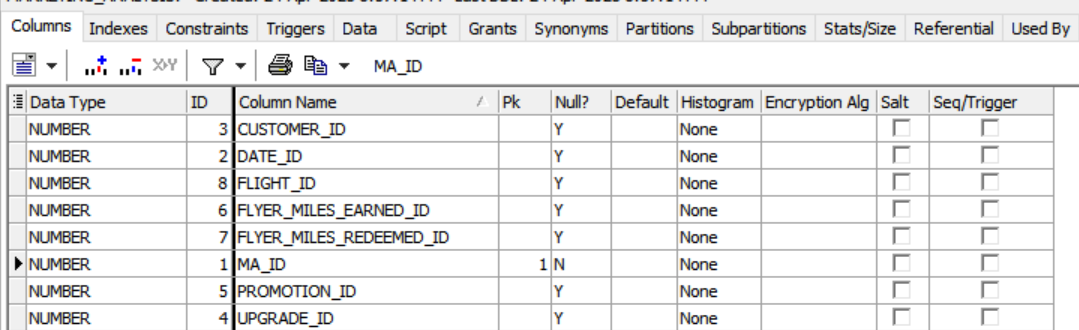
insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (6, 6, 6, 6, 6, 6, 6, 6);

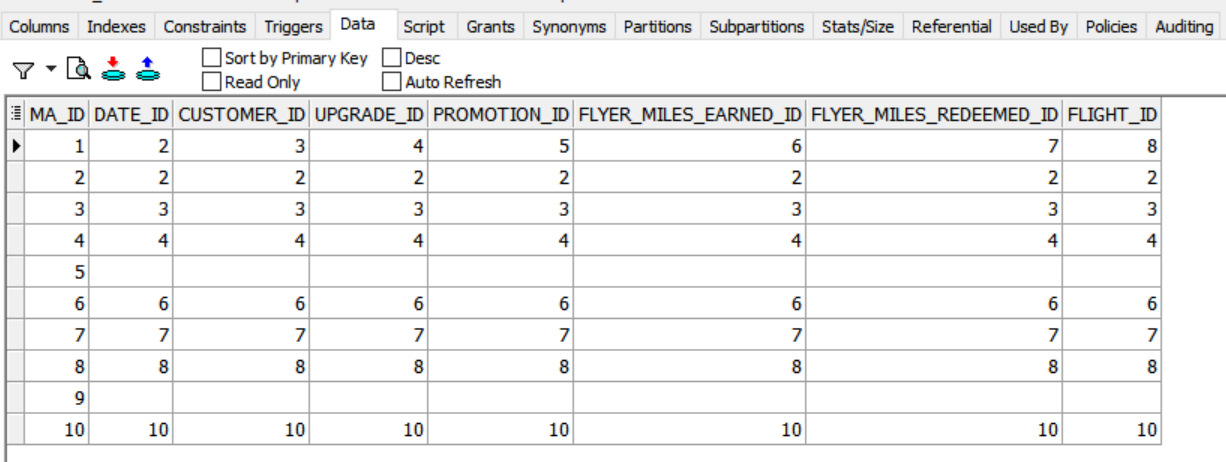
insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (7, 7, 7, 7, 7, 7, 7, 7);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (8, 8, 8, 8, 8, 8, 8, 8);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (9, null, null, null, null, null, null, null);

insert into marketing\_analysis (ma\_id, date\_id, customer\_id, upgrade\_id, promotion\_id, flyer\_miles\_earned\_id, flyer\_miles\_redeemed\_id, flight\_id) values (10, 10, 10, 10, 10, 10, 10, 10);





CREATE TABLE payment\_method

(

payment\_method\_id NUMBER PRIMARY KEY,

payment\_method\_name VARCHAR2(1000)

);

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (1, 'ggrunson0');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (2, 'ajentges1');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (3, 'bgudgion2');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (4, 'vroubottom3');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (5, 'tdouche4');

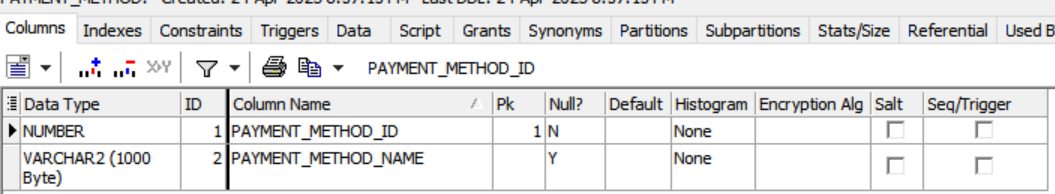
insert into payment\_method (payment\_method\_id, payment\_method\_name) values (6, 'fweems5');

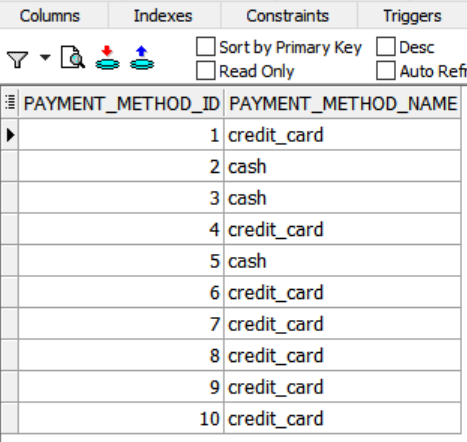
insert into payment\_method (payment\_method\_id, payment\_method\_name) values (7, 'jlewknor6');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (8, 'sstute7');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (9, 'dwitherbed8');

insert into payment\_method (payment\_method\_id, payment\_method\_name) values (10, 'bfrantz9');





CREATE TABLE flight\_activity

(

id NUMBER PRIMARY KEY,

num\_passengers NUMBER,

empty\_seats NUMBER,

num\_crew NUMBER,

flight\_id NUMBER REFERENCES flight(flight\_id),

aircraft\_id NUMBER REFERENCES aircraft(aircraft\_id),

src\_airport\_id NUMBER REFERENCES airport(airport\_id),

dest\_airport\_id NUMBER REFERENCES airport(airport\_id),

captain\_id NUMBER REFERENCES crew\_member(member\_id),

flight\_attendant\_id NUMBER

)

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (1, 368, 96, 15, 1, 1, 2, 2, 6, 3);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (2, 472, 46, 14, 2, 2, 3, 1, 7, 5);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (3, 290, 5, 12, 3, 3, 2, 4, 2, 7);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (4, 414, 46, 10, 4, 4, 5, 8, 3, 6);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (5, null, null, null, null, null, null, null, null, null);

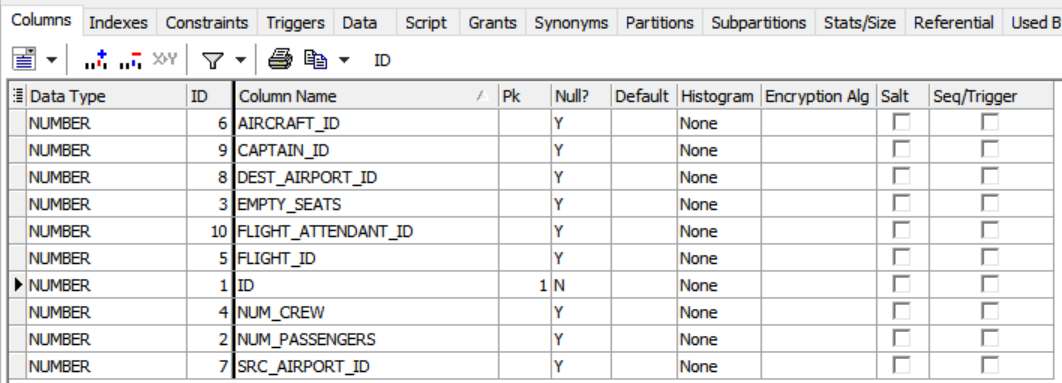
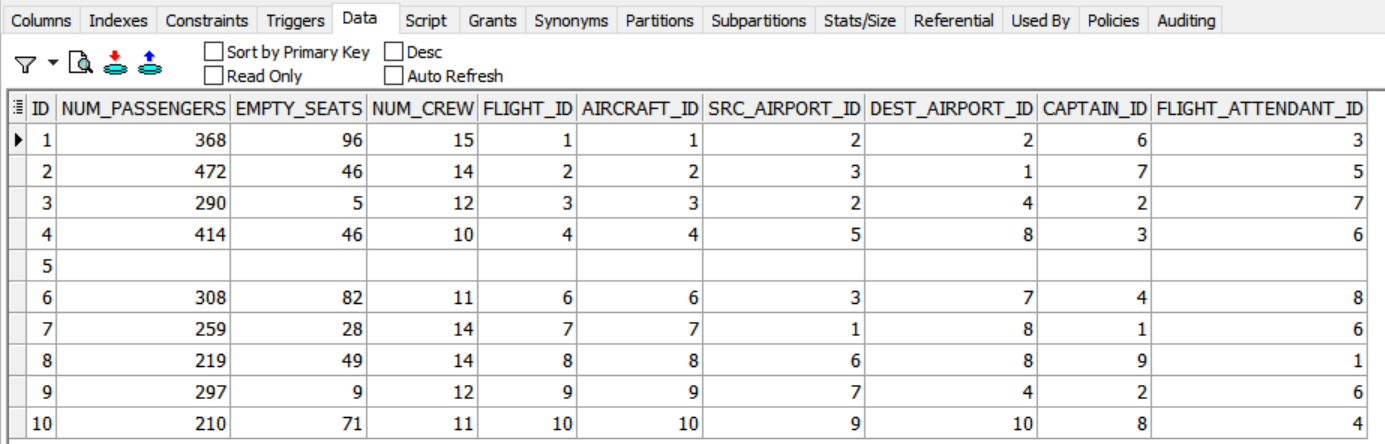
insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (6, 308, 82, 11, 6, 6, 3, 7, 4, 8);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (7, 259, 28, 14, 7, 7, 1, 8, 1, 6);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (8, 219, 49, 14, 8, 8, 6, 8, 9, 1);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (9, 297, 9, 12, 9, 9, 7, 4, 2, 6);

insert into flight\_activity (id, num\_passengers, empty\_seats, num\_crew, flight\_id, aircraft\_id, src\_airport\_id, dest\_airport\_id, captain\_id, flight\_attendant\_id) values (10, 210, 71, 11, 10, 10, 9, 10, 8, 4);



CREATE TABLE Reservation

(

seat\_number number,

Base\_price number,

Discount number,

Price number,

overnight\_stand number,

Resrv\_Id number,

Customer\_Id number,

PM\_ID number,

channel\_id number,

flight\_id number,

Fare\_class\_id number,

Date\_Id number,

PRIMARY KEY (Resrv\_Id),

FOREIGN KEY (Customer\_Id) REFERENCES Customer(Customer\_Id),

FOREIGN KEY (PM\_ID) REFERENCES payment\_method(payment\_method\_id),

FOREIGN KEY (channel\_id) REFERENCES Channel(channel\_id),

FOREIGN KEY (flight\_id) REFERENCES flight(flight\_id),

FOREIGN KEY (Fare\_class\_id) REFERENCES fare\_class(fare\_class\_id),

FOREIGN KEY (Date\_Id) REFERENCES flight\_date(date\_id)

);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (243, 8860, 2470, 7143, 2, 1, 10, 2, 2, 6, 3, 5);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (225, 6344, 3876, 5740, 12, 2, 6, 5, 1, 1, 8, 2);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (384, 7798, 3078, 3824, 10, 3, 8, 10, 6, 3, 3, 2);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (294, 2969, 3263, 7701, 20, 4, 5, 3, 7, 3, 4, 3);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (46, 3131, 3166, 5588, 17, 5, 7, 8, 8, 3, 6, 5);

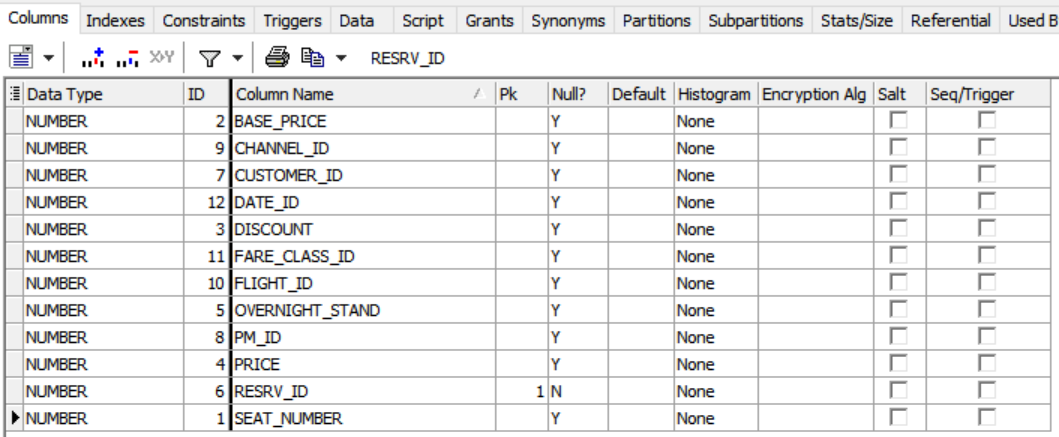
insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (232, 7185, 3961, 6733, 18, 6, 9, 5, 2, 3, 9, 1);

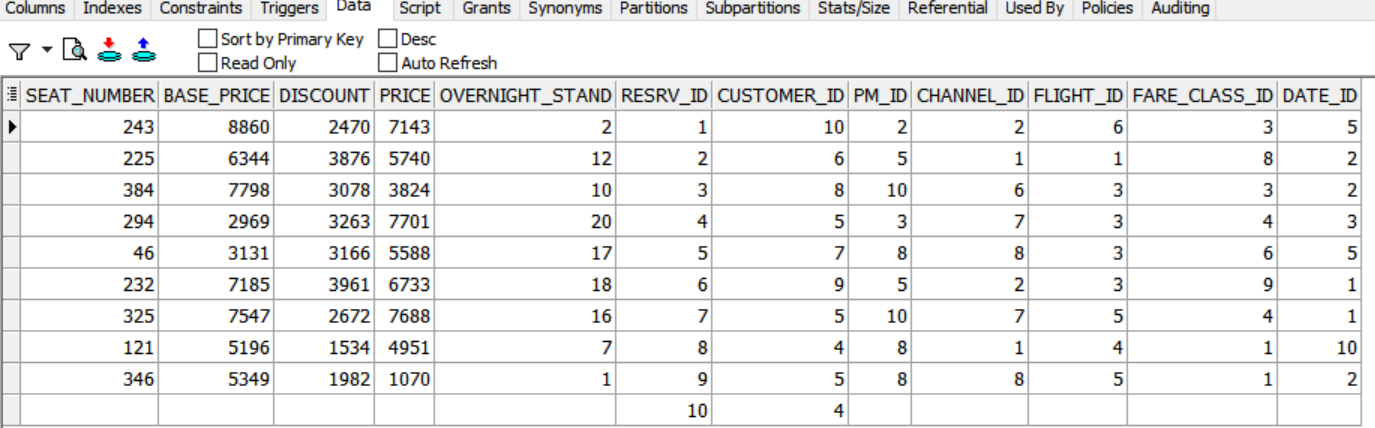
insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (325, 7547, 2672, 7688, 16, 7, 5, 10, 7, 5, 4, 1);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (121, 5196, 1534, 4951, 7, 8, 4, 8, 1, 4, 1, 10);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (346, 5349, 1982, 1070, 1, 9, 5, 8, 8, 5, 1, 2);

insert into Reservation (seat\_number, base\_price, discount, price, overnight\_stand, resrv\_id, customer\_id, pm\_id, channel\_id, flight\_id, fare\_class\_id, date\_id) values (null, null, null, null, null, 10, 4, null, null, null, null, null);





CREATE TABLE Customer\_service

(

problem\_Severty varchar(500),

CSer\_ID number,

Action\_id number,

Customer\_Id number,

Date\_Id number,

flight\_id number,

PM\_ID number,

channel\_id number,

Member\_id number,

PRIMARY KEY (CSer\_ID),

FOREIGN KEY (Action\_id) REFERENCES Action(Action\_id),

FOREIGN KEY (Customer\_Id) REFERENCES Customer(Customer\_Id),

FOREIGN KEY (Date\_Id) REFERENCES flight\_date(date\_Id),

FOREIGN KEY (flight\_id) REFERENCES flight(flight\_id),

FOREIGN KEY (PM\_ID) REFERENCES payment\_method (payment\_method\_id),

FOREIGN KEY (channel\_id) REFERENCES Channel(channel\_id),

FOREIGN KEY (Member\_id) REFERENCES crew\_member(Member\_id)

);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (1, 1, 3, 4, 9, 6, 6, 10, 2);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (null, 2, null, null, null, null, null, null, null);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (1, 3, 9, 4, 1, 6, 8, 3, 5);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (1, 4, 8, 8, 5, 8, 7, 7, 3);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (0, 5, 7, 3, 3, 3, 5, 3, 9);

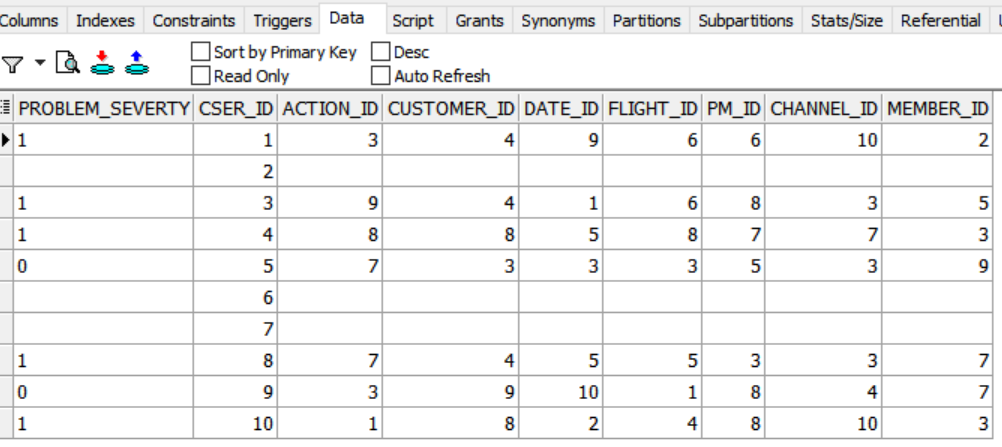
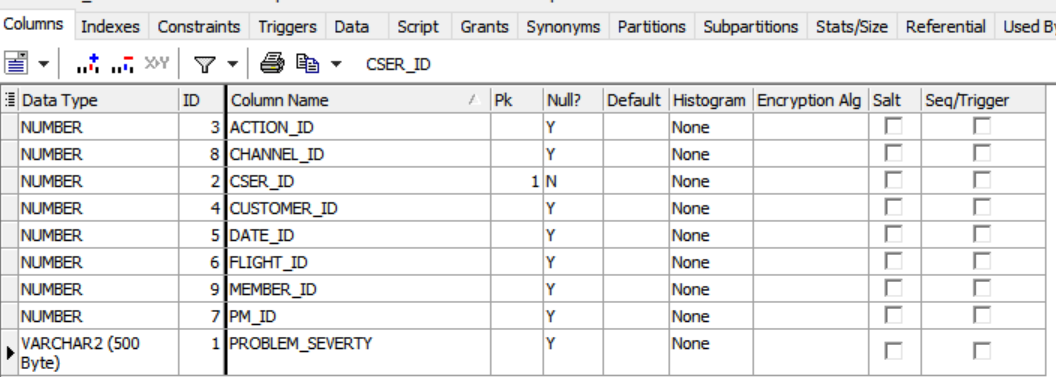
insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (null, 6, null, null, null, null, null, null, null);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (null, 7, null, null, null, null, null, null, null);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (1, 8, 7, 4, 5, 5, 3, 3, 7);

insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (0, 9, 3, 9, 10, 1, 8, 4, 7);

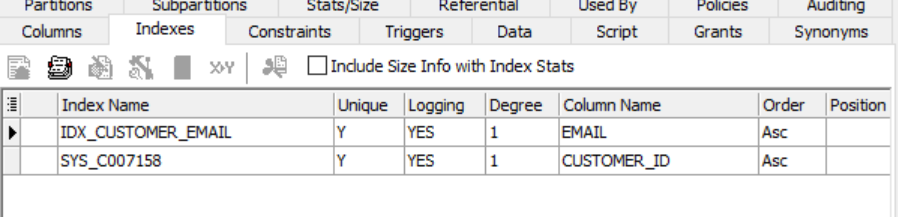
insert into Customer\_service (problem\_severty, cser\_id, action\_id, customer\_id, date\_id, flight\_id, pm\_id, channel\_id, member\_id) values (1, 10, 1, 8, 2, 4, 8, 10, 3);



----------------------indexes

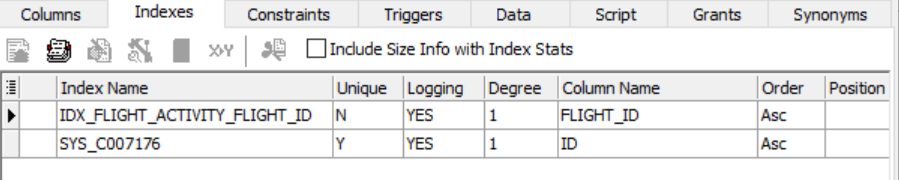
---- unique index in email column

CREATE UNIQUE INDEX idx\_customer\_email ON hr.customer(email);



----- B-tree index in fk

CREATE INDEX idx\_flight\_activity\_flight\_id ON hr.flight\_activity(flight\_id);



----- clustered index on each pk in each table

