--Dml statements

INSERT INTO country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('RUS','Russian federation','144192450' );

INSERT INTO country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('MEX','Mexico','119530753');

INSERT INTO country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('DZA','Algeria','40400000');

INSERT INTO Country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('CHN','China','1736049000');

INSERT INTO Country\_t (cntry\_code,cntry\_name,cntry\_population) VALUES ('CHL','Chile','18006407');

INSERT INTO Country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('CAN','Canada','36155487');

INSERT INTO Country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('KNY','Kenya','598321');

INSERT INTO Country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('CAM','Cameroon','597321');

INSERT INTO Country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('JPN','JAPAN','599321');

INSERT INTO Country\_t(cntry\_code,cntry\_name,cntry\_population) VALUES ('BZL','Brazil','591321');

INSERT INTO city\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0001,'Kabul','1780000', 'CAN');

INSERT INTO city\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0002,'Qandahar','237500','CHL');

INSERT INTO city\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0003,'Herat','186800','RUS');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0004,'Balkh','127800','CHN');

INSERT INTO City\_t (city\_id,city\_name,city\_population,cntry\_code) VALUES (0005,'Noord-Holland','731200','CHL');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0006,'Rotterdam','597321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0007,'Pakiston','5933261','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (0008,'puebla','5933241','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00010,'ORAN','5933921','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00011,'piko','5933211','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00012,'Rater','5903321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00013,'rio','5938321','KNY');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00014,'Rotter','5983321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00015,'Zuela','5933321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00016,'Perin','593321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00017,'Rotterdam','593321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00018,'Rotterdam','593321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00019,'Latina','593321','DZA');

INSERT INTO City\_t(city\_id,city\_name,city\_population,cntry\_code) VALUES (00020,'varlan','593321','DZA');

-- Add Customer data

SELECT\*from customer\_t;

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance ,cust\_country)

VALUES( 'C002', 'Brahim', 'Toure', '613-727-4723', '1387 Woodroffe Ave', 'Ottawa', 'ON', 'K2G1V8', 0 ,'CAN');

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance ,cust\_country)

VALUES( 'C002', 'brasergeo', 'mdjack', '613-727-4723', '1385 vndjd Ave', 'paokao', 'ON', 'K2G1V8', 0,'CHL' );

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance ,cust\_country)

VALUES( 'C003', 'Bob', 'yuian', '613-727-4723', '1385 mandot Ave', 'cicam', 'ON', 'K2G1V8', 0,'MEX' );

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance,cust\_country )

VALUES( 'C097', 'Aze ', 'Balai', '7-731-707-7243', ' Ulitsa Aleutska', 'Valdivos', ' VL', 'VL7SK4', 0,'RUS' );

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance,cust\_country )

VALUES( 'C008', 'poalo', 'keepea', '613-727-4723', '264 Maon Street' , 'Kimet', 'ON', 'K2G1V8', 0,'CHN' );

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance,cust\_country )

VALUES( 'C006', 'polo', 'mona', '613-727-4723', '357 nme Catherine' , 'lpode', 'ON', 'K2G1V8', 0,'KNY' );

-- Add Invocie data

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23001', 'C001', '2011-02-15' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23002', 'C001', '2011-04-25' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23003', 'C004', '2011-06-12' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23004', 'C002', '2011-07-08' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23005', 'C005', '2011-08-24' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23006', 'C006', '2011-09-07' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23007', 'C006', '2010-12-28' );

INSERT INTO Invoice\_T( Invoice\_Number, Cust\_Id, Invoice\_Date )

VALUES( 'I23008', 'C006', '2011-12-15' );

-- Add Product data

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES( 'P2011', 'Compac Presario', '2011-02-14', 20, 5, 499.99, 0,'RUS' );

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES( 'P2012', 'HP laptop', '2010-09-25', 40, 5, 529.99, 0 ,'CHL');

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES( 'P2013', 'Samsung LCD', '2010-02-15', 22, 8, 329.99, 0,'CAN' );

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES( 'P2014', 'Brother Network All-In-One Laser Printer', '2010-10-10', 50, 10, 159.99, 0,'CHN' );

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount ,cntry\_origin)

VALUES( 'P2015', 'Western Digital External Hard drive', '2010-04-08', 30, 10, 149.99, NULL,'KNY' );

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount ,cntry\_origin)

VALUES( 'P2016', 'Apple iPad 2 with Wi-Fi + 3G', '2011-02-23', 90, 200, 849.00, 0,'KNY' );

INSERT INTO Product\_T( Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES( 'P2017', 'iPAD 2 Smart Cover', '2011-02-14', 70, 10, 45.00, 10,'CAN' );

-- Add Invoice Line Data

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23001', 1, 'P2011', 1, 650.75 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23001', 2, 'P2014', 3, 159.99 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23002', 1, 'P2012', 1, 529.99 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23003', 1, 'P2015', 3, 140.75 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23004', 1, 'P2014', 1, 159.99 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23005', 1, 'P2016', 1, 798.99 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23006', 1, 'P2011', 1, 499.99 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23007', 1, 'P2012', 1, 529.99 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23008', 1, 'P2016', 3, 689.00 );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I23008', 2, 'P2017', 3, 35.99 );

--mandatory data

INSERT INTO Customer\_T( Cust\_Id, Cust\_Fname, Cust\_Lname, Cust\_Phone, Cust\_Address, Cust\_City, Cust\_Prov, Cust\_PostCode, Cust\_Balance ,cust\_country)

VALUES( 'C097', 'Aze ', 'Balai', '7-731-707-7243', ' Ulitsa Aleutska', 'Valdivosto', 'VL', 'VL7SK4', 0,'RUS' );

INSERT INTO product\_T(Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES ( 'P2119', 'Organic Char', '2018-01-14', 240, 100, 15.00, 5,'RUS') ;

INSERT INTO product\_T(Prod\_Code, Prod\_Description, Prod\_Indate, Prod\_QOH, Prod\_Min, Prod\_Price, Prod\_Discount,cntry\_origin )

VALUES ( 'P2020', 'Organic Collard Green', '2018-01-14', 140, 110, 11.00 , 5 , 'RUS');

INSERT INTO Invoice\_T ( Invoice\_Number, Cust\_Id, Invoice\_Date)

VALUES( 'I88001', 'C097', '2018-01-15' );

INSERT INTO Invoice\_Line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I88001', 1, 'P2119', 3, 15.00 );

INSERT INTO Invoice\_line\_T( Invoice\_Number, Invoice\_Line, Prod\_Code, Line\_Unit, Line\_Price )

VALUES( 'I88001', 2, 'P2020', 3, 11.0 );

--delete statement

delete from customer\_T where cust\_country='CHL';

delete from product\_T where cntry\_origin='RUS';

-- no delete can be done because the second foreign key belonging to the table invoice \_line\_T has been voilated .

--JOINS

--1. sql that lists countries that do not have any customers

SELECT cntry\_name

FROM country\_T

LEFT JOIN customer\_T

on country\_T.cntry\_code=customer\_T.cust\_country

where customer\_T.cust\_country is null;

--2.sql that lists countries from which no product are bought

select country\_T.cntry\_name

from product\_T

right join country\_T

on product\_T.cntry\_origin=country\_T.cntry\_code

where product\_T.cntry\_origin is null;