Exercises, class 7

1. Copy, paste and execute the following MySQL code, OR **use the database exercises_7_8 in HeidiSQL**.

```
CREATE DATABASE IF NOT EXISTS Supply;
USE Supply;

CREATE TABLE Customer(
CustomerID INT,
CustomerName VARCHAR(128),
Country VARCHAR(128),
PhoneNumber CHAR(16),
Email VARCHAR(128),
PRIMARY KEY(CustomerID)
);

CREATE TABLE CustOrder(
OrderID INT,
CustomerID INT,
TransportFee FLOAT,
OrderYear INT,
PRIMARY KEY(OrderID),
FOREIGN KEY(CustomerID) REFERENCES Customer(CustomerID)
);

CREATE TABLE Supplier(
SupplierID INT,
SupplierName VARCHAR(128),
Country VARCHAR(128),
PhoneNumber CHAR(16),
Email VARCHAR(128),
YearFounded INT,
PRIMARY KEY(SupplierID)
);

CREATE TABLE Product(
ProductID INT,
SupplierID INT,
ProductName VARCHAR(128),
ProductType VARCHAR(128),
UnitPrice FLOAT,
PRIMARY KEY(ProductID),
FOREIGN KEY(SupplierID) REFERENCES Supplier(SupplierID)
);

CREATE TABLE OrderDetails(
OrderID INT,
ProductID INT,
Quantity INT,
Comment VARCHAR(512),
FOREIGN KEY(OrderID) REFERENCES CustOrder(OrderID),
FOREIGN KEY(ProductID) REFERENCES Product(ProductID)
```

```
);


INSERT INTO Customer VALUES(1, 'James Teagan', 'Canada', '(450) 567-9876',
'james.teagan@gmail.com');
INSERT INTO Customer VALUES(2, 'Henri Tweed', 'Australia', '(333) 543-
2121', 'henri.tweed@hotmail.com');
INSERT INTO Customer VALUES(3, 'Ronald Sarko', 'Australia', '(333) 541-
2212', 'ronald.sarko@gmail.com');


INSERT INTO CustOrder VALUES(1, 1, 5.54, 2016);
INSERT INTO CustOrder VALUES(2, 2, 15.22, 2017);
INSERT INTO CustOrder VALUES(3, 3, 6.72, 2017);
INSERT INTO CustOrder VALUES(4, 2, 10.55, 2017);

INSERT INTO Supplier VALUES(1, 'SpplCo', 'China', '(222) 444-7788',
'spplco@gmail.com', 1956);
INSERT INTO Supplier VALUES(2, 'PLR_inc', 'France', '(456) 982-7101',
'PLR_inc@gmail.com', 1931);

INSERT INTO Product VALUES(1000, 1, 'Refrigerator_A1', 'Appliance',
1199.99);
INSERT INTO Product VALUES(2000, 2, 'Dryer_D4', 'Appliance', 949.99);

INSERT INTO OrderDetails VALUES(1, 1000, 3, 'Bring the merchandise in
through the back door.');
INSERT INTO OrderDetails(OrderID, ProductID, Quantity) VALUES(2, 2000, 5);
INSERT INTO OrderDetails(OrderID, ProductID, Quantity) VALUES(3, 2000, 1);
INSERT INTO OrderDetails(OrderID, ProductID, Quantity) VALUES(4, 2000, 1);
```

2. Then, make queries to the database in order to obtain the following information:

a) The names of the customers that are from Canada.

b) The names of the Australian customers sorted in alphabetical order.

c) The IDs of the orders that have a quantity of items inferior or equal to 3.

d) The IDs of the orders that have a quantity of items inferior or equal to 3 and have no comment.

e) The names of the suppliers that have been founded after 1950 or are French suppliers.

f) The names of the suppliers that have been founded after 1950 and are French suppliers.

g) The names of the suppliers that have been founded after 1950 and are Chinese suppliers, or are Canadian supppliers.

h) The tranport fees of the orders that have a quantity of items inferior to 5.

i) The names of the suppliers who sell products with a unit price of more than $1000.