Bài 1&2:

**CREATE** **DATABASE** apple\_store

**CREATE** **TABLE** customer(

customer\_id **INT** **PRIMARY** **KEY** **AUTO\_INCREMENT**,

first\_name **VARCHAR**(250)

)

**CREATE** **TABLE** orders(

order\_id **INT** **PRIMARY** **KEY** **AUTO\_INCREMENT**,

amount **INT**,

customer\_key **INT**,

**FOREIGN** **KEY** (customer\_key) **REFERENCES** customer(customer\_id)

)

**INSERT** **INTO** customer (customer\_id,first\_name)

**VALUES**

(1,'John'),

(2,'Robert'),

(3,'David'),

(4,'John son'),

(5,'Betty'),

(6,'hung'),

(7,'Thai'),

(8,'Tien'),

(9,'Trung'),

(10,'Quan')

Graphical user interface, application

Description automatically generated

**INSERT** **INTO** orders(order\_id,amount,customer\_key)

**VALUES**

(1,200,10),

(2,500,3),

(3,300,6),

(4,800,5),

(5,150,8)

Table

Description automatically generated with medium confidence

Bài 3:

**SELECT** a.customer\_id,a.first\_name,b.order\_id,b.amount,b.customer\_key

**FROM** customer **AS** a **LEFT** **join** orders **AS** b

**ON** a.customer\_id = b.customer\_key

Graphical user interface

Description automatically generated with medium confidence

**Bài 4**

**SELECT** a.customer\_id,a.first\_name,b.order\_id,b.amount,b.customer\_key

**FROM** customer **AS** a **RIGHT** **JOIN** orders **AS** b

**on** a.customer\_id = b.customer\_key

Graphical user interface

Description automatically generated with medium confidence

Bài 5:

**SELECT** a.customer\_id,a.first\_name,b.order\_id,b.amount,b.customer\_key

**FROM** customer **AS** a **LEFT** **join** orders **AS** b

**ON** a.customer\_id = b.customer\_key

**WHERE** b.order\_id **IS** **NULL**

**UNION** **ALL**

**SELECT** a.customer\_id,a.first\_name,b.order\_id,b.amount,b.customer\_key

**FROM** customer **AS** a **RIGHT** **JOIN** orders **AS** b

**on** a.customer\_id = b.customer\_key

Table

Description automatically generated with medium confidence

Bài 6&7:

**CREATE** **TABLE** customer(

customer\_id **INT** **PRIMARY** **KEY** **AUTO\_INCREMENT**,

first\_name **VARCHAR**(250),

last\_name **VARCHAR**(250),

age **INT**,

country **VARCHAR**(250)

)

**INSERT** **INTO** customer (customer\_id,first\_name,last\_name,age,country)

**VALUES**

(1,'John','Doe',31,'USA'),

(2,'Robert','Luna',22,'USA'),

(3,'David','Robinson',22,'UK'),

(4,'John','Reinhardt',25,'UK'),

(5,'Betty','Doe',28,'UAE')

Bài 8:

**SELECT** \*

**FROM** customer

**WHERE** age <

(**SELECT** **AVG**(age)

**FROM** customer )

A picture containing application

Description automatically generated

Bài 9&10 :

**CREATE** **TABLE** paintings(

id **INT** **PRIMARY** **KEY**,

**NAME** **VARCHAR**(250),

artist\_id **INT**,

listed\_price **DOUBLE**)

**INSERT** **INTO** paintings(id,**NAME**,artist\_id,listed\_price)

**VALUES**

(11,'Miracle',1,300.00),

(12,'Sunshine',1,700),

(13,'Pretty woman',2,2800),

(14,'Handsome man',2,2300),

(15,'Barbie',3,250),

(16,'Cool painting',3,5000),

(17,'Black square',3,50),

(18,'Mountains',4,1300)

Bài 11:

**SELECT** \*

**FROM** paintings

**WHERE** listed\_price >

(**SELECT** **AVG**(listed\_price)**FROM** paintings)

Graphical user interface, text, application

Description automatically generated