

DATABASE - SECD2523

SECTION: 06

LAB 2

NAME: KEW JIAN HENG

MATRIC NO: A22EC0058

INSTRUCTORS: DR.IZYAN IZZATI BINTI KAMSANI

DFo_6_4_1_Project

Part 1: Running a script to populate the tables

```
CREATE TABLE inventory_list (
                 VARCHAR2(11) NOT NULL,
          CONSTRAINT inventory_list_pk PRIMARY KEY ( id )
1.
      TABLE created.
      CREATE TABLE items (
          itm_number
          description VARCHAR2(50) NOT NULL,
          category
                         CHAR(1),
VARCHAR2(11) NOT NULL,
          ilt_id
          CONSTRAINT item_pk PRIMARY KEY ( itm_number )
     TABLE created.
      CREATE TABLE price_history (
          start_time DATE NOT NULL,
         price
         end_date
                        DATE,
         end time
         itm number    VARCHAR2(10) NOT NULL,
CONSTRAINT price_history_pk PRIMARY KEY ( itm_number, start_date, start_time ),
CONSTRAINT price_history_items_fk FOREIGN KEY ( itm_number ) REFERENCES items ( itm_number )
             TABLE sales_representatives (
                          VARCHAR2(4) NOT NULL,
          first_name
          last_name
          phone_number
          CONSTRAINT sales_representative_pk PRIMARY KEY ( id ),
          CONSTRAINT sre_email_uk UNIQUE (email)
     TABLE created.
      CREATE TABLE sales_rep_addresses (
id VARCHAR2(4) NOT NULL,
          address_line_1 VARCHAR2(30) NOT NULL,
                            VARCHAR2(15) NOT NULL,
VARCHAR2(7) NOT NULL,
          CONSTRAINT sales_rep_address_pk PRIMARY KEY ( id )
     TABLE created.
      CREATE TABLE teams (
                                VARCHAR2(20) NOT NULL,
         number_of_players NUMBER(2) NOT NULL,
                                NUMBER(2),
          CONSTRAINT team_pk PRIMARY KEY ( id )
     TABLE created.
```

```
ATE TABLE customers (
     ctr number
     email
     first_name
     last_name
    phone_number
    current_balance
     tem_id
     loyalty_card_number VARCHAR2(6),
     CONSTRAINT customer_pk PRIMARY KEY ( ctr_number ),
     CONSTRAINT ctr_{email}_uk UNIQUE (email),
     CONSTRAINT ctr_lcn_uk UNIQUE (loyalty_card_number)
TABLE created.
 CREATE TABLE customers_addresses (
     address_line_1 VARCHAR2(30) NOT NULL,
address_line_2 VARCHAR2(30),
city VARCHAR2(15) NOT NULL,
zip_code VARCHAR2(7) NOT NULL,
ctr_number VARCHAR2(6) NOT NULL,
     CONSTRAINT customer_address_pk PRIMARY KEY ( id )
TABLE created.
CREATE TABLE orders (
                         VARCHAR2(9) NOT NULL,
     odr date
     odr time
     number_of_units NUMBER(2) NOT NULL,
    ctr_number
    CONSTRAINT orders_pk PRIMARY KEY ( id )
CREATE TABLE ordered_items (
     quantity_ordered NUMBER(3) NOT NULL, quantity_shipped NUMBER(3) NOT NULL,
     TABLE created.
ALTER TABLE customers_addresses ADD CONSTRAINT customer_address_customer_fk FOREIGN KEY ( ctr_number )
    REFERENCES customers ( ctr_number );
 ALTER TABLE customers ADD CONSTRAINT customer_sales_rep_fk FOREIGN KEY ( sre_id )
   REFERENCES sales_representatives ( id );
 TABLE altered.
 ALTER TABLE customers ADD CONSTRAINT customer_team_fk FOREIGN KEY ( tem_id )
   REFERENCES teams ( id );
 TABLE altered.
 ALTER TABLE items ADD CONSTRAINT item_inventory_list_fk FOREIGN KEY ( ilt_id )
   REFERENCES inventory_list ( id );
 ALTER TABLE orders ADD CONSTRAINT order_customer_fk FOREIGN KEY ( ctr_number )
   REFERENCES customers ( ctr_number );
 TABLE altered
 ALTER TABLE ordered_items ADD CONSTRAINT ordered_item_item_fk FOREIGN KEY ( itm_number )
   REFERENCES items ( itm_number );
 ALTER TABLE ordered_items ADD CONSTRAINT ordered_item_order_fk FOREIGN KEY ( odr_id )
    REFERENCES orders ( id );
 ALTER TABLE sales_rep_addresses ADD CONSTRAINT sales_rep_add_sales_rep_fk FOREIGN KEY ( id )
REFERENCES sales_representatives ( id );
```

```
ALTER TABLE sales_representatives ADD CONSTRAINT sales_rep_sales_rep_fk FOREIGN KEY ( supervisor_id ) REFERENCES sales_representatives ( id );

TABLE altered.

CREATE OR REPLACE TRIGGER fkntm_orders BEFORE

UPDATE OF ctr_number ON orders

BEGIN

raise_application_error(

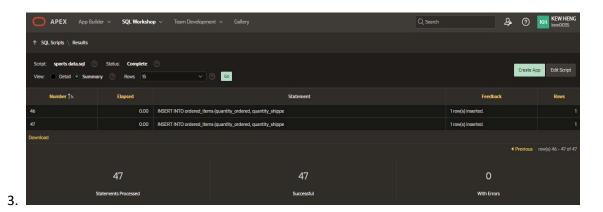
-20225,

'Non Transferable FK constraint on table orders is violated'
);

END;
/

TRIGGER created.
```

Yes, it matched.



No error was found.

Part 2: Inserting rows to the system

2.

INSERT INTO teams (id, name, number_of_players, discount)

VALUES ('too4', 'TETS', 10, 5);

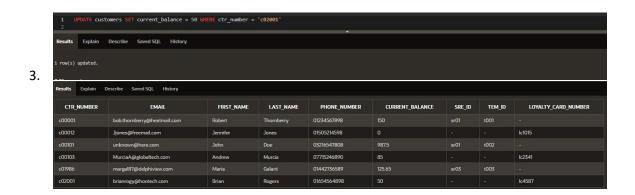
Results	Explain Describe	Saved SQL History							
	ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT					
t001		Rockets		10					
t002		Celtics	42	20					
t003		Rovers							
t004		Jets	10	5					

INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number,

current_balance, loyalty = cord = number)

VALUES ('co2001', 'briantogy@houtech.com', 'Brian', 'Rogers', '01654564898', -5, "1c4587');

Results Explain Describe Saved SQL History								
CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
c00001	bob.thomberry@heatmail.com	Robert	Thornberry	01234567898		sr01	t001	
c00012	Jjones@freemail.com	Jennifer	Jones	01505214598				lc1015
c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	
c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85			lc2341
c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	
c02001	brianrogy@hootech.com	Brian	Rogers	01654564898				lc4587



Dfo_6_4_2_Project

1.

2.

3.

4.

5.

Part 1- Updating rows to the system

START_DATE	TO_CHAR(START_TIME,'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME,'HH24:MI')			
06/17/2017	09:00:00			*			
11/25/2016	09:00:00	14.99	01/25/2017	17:00			
01/25/2017	17 :01:00			19:00			
01/26/2017	09:00:00	15.99					
02/12/2017	12:50:00						
04/25/2017	10:10:10	24.99					
05/31/2017							
7 rows returned in 0.01 seconds Download							

UPDATE price _ history

SET end_date = SYSDATE , end_time = SYSDATE

WHERE itm_number = "imollo1048" and end_date IS NULL;

INSERT INTO price _ history (stort _ date , stort _ time , price , itm _ number)
VALUES (SYSDATE , SYSDATE , 99.99 , "imollo1048")

Part 2: Deleting rows from the system

```
DELETE FROM customers - addresses

WHERE id = 'caoloi';
```

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	СІТУ	ZIP_CODE	CTR_NUMBER	
ca0102	17 Gartsquare Road	Starford	Liverpool	LP89JHK	c00001	
ca0103	54 Ropehill Crescent	Georgetown	Star	ST45AGV	c00101	
ca0104	36 Watercress Lane		Jump	JP23YTH	c01986	
ca0105	63 Acacia Drive	Skins	Liverpool	LP83JHR	c00001	
4 rows returned in 0.01 seconds Download						

2.