

# **SECD 2523 - DATABASE**

**SECTION - 05** 

## DR. HASLINA BINTI HASHIM

### LAB ACTIVITY - DML

NO.	NAME	MATRIC ID		
1.	MUHAMMAD ERFAN SYABIL BIN ESA	B23CS0055		
2.	MUHAMMAD EIZAM BIN ROZLI HAS	B23CS0054		
3.	HAFIY DANIEL BIN HASROM	B23CS0037		
4.	AUNI NAJWA BINTI ALIZAR	B23CS0029		

#### Part 1: Running a script to populate the tables.

You have to consider the order of the tables when populating them. A table that has a foreign key field cannot be populated before the related table with the primary key.

- 1. Use the table mapping document and list the order that you would use to populate the tables.
- 2. Open the "sports data.sql" and look at the order the data is being added there, does your list match? This file can be found in the Section 6 Lesson 4 interaction (sports data.zip) and must first be extracted.
- 3. Run the "sports data.sql" script in APEX to populate your tables
- 4. Check that no errors occurred when you ran the script.

```
1 v INSERT INTO inventory_list (id, cost, units)
2 vALUES('il010230124', 2.5, 100);
3
4 v INSERT INTO inventory_list (id, cost, units)
5 vALUES('il010230125', 7.99, 250);
6
7 v INSERT INTO inventory_list (id, cost, units)
8 vALUES('il010230126', 5.24, 87);
9
10 v INSERT INTO inventory_list (id, cost, units)
11 vALUES('il010230127', 18.95, 65);
12
13 v INSERT INTO inventory_list (id, cost, units)
14 vALUES('il010230128', 97.46, 8);
4
4
6
6
7 row(s) inserted.
1 row(s) inserted.
```

Script successfully run.

#### Part 2- Inserting rows to the system

1. Add a new team to the system

id	name	Number_of_players	discount
t004	Jets	10	5

```
1 values('t004', 'Jets', 10, 5);
1 row(s) inserted.
```

A new team was successfully added to TEAM tables.

2. Add a new Customer with the following details to the system

ctr number	email	First name	Last name	Phone number	Current balance	Loyalty card number	tem id	sre id
c02001	brianrog@hoote ch.com	Brian	Rogers	01654564898	-5	lc4587		

```
1 VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', -5, 'lc4587');

VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', -5, 'lc4587');

ORA-02290: check constraint (SQL_VKRCRGKUPWUDAELAAGCAXDQFE.SYS_C00137997737) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

More Details: https://docs.oracle.com/error-help/db/ora-02290
```

An error occurred because the current\_balance value cannot be less than 0.

3. This information violates the check constraint that the current balance must not be less than zero. Change the current balance to 50 and rerun the query.

```
1 v INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number)
2 VALUES('c02001', 'brianrog@hootech.com', 'Brian', 'Rogers', '01654564898', 50, 'lc4587');
1 row(s) inserted.
```

Data successfully inserted.

#### Part 1- Updating rows to the system

1. Run the following query to view the content of the price\_history table:

```
SELECT start_date, TO_CHAR (start_time, 'HH24:MI:SS'), price, end_date, TO_CHAR
(end_time, 'HH24:MI')
FROM price_history;
```

```
1_{\rm v} SELECT start date, TO_CHAR (start time, 'HH24:\underline{\rm MI:SS}'), price, end date, TO_CHAR
2 (end time, 'HH24:MI')
3 FROM price history;
               TO_CHAR(START_TIME, 'HH24:MI:SS')
                                                              END DATE
                                                                           TO_CHAR(END_TIME, 'HH24:MI')
 START_DATE
                                                     PRICE
 17-JUN-17
               09:00:00
                                                     4.99
 25-NOV-16
                                                             25-JAN-17 17:00
               09:00:00
                                                     14.99
 25-JAN-17
               17:01:00
                                                     8.99
                                                              25-JAN-17
                                                                          19:00
 26-JAN-17
               09:00:00
                                                     15.99
 12-FEB-17
               12:30:00
                                                     7.99
 25-APR-17
               10:10:10
                                                     24.99
 31-MAY-17
               16:35:30
                                                     149
 Download CSV
7 rows selected.
```

Output

2. Obl is going to update the price of the premium bat so you will need to write a query that will close off the current price by adding the system date values to the end\_date and end\_time fields. To run this query you will need to both match the item number and identify that the end date is null. This ensures that you are updating the latest price.

```
1    UPDATE price_history
2    SET end_date = SYSDATE, end_time = SYSDATE
3    WHERE itm_number = 'im01101048' AND end_date IS NULL
4    ;

1 row(s) updated.
```

3. Rerun the select statement on the price\_history table to ensure that the statement has been executed.

```
\mathbf{1}_{\,\scriptscriptstyle{\,\vee\,}} SELECT start_date, TO_CHAR (start_time, 'HH24:MI:SS'), price, end_date, TO_CHAR
2 (end_time, 'HH24:MI')
3 FROM price_history;
 START_DATE
                TO_CHAR(START_TIME, 'HH24:MI:SS')
                                                       PRICE
                                                                 END_DATE
                                                                              TO_CHAR(END_TIME, 'HH24:MI')
 17-JUN-17
                09:00:00
                                                       4.99
 25-NOV-16
                09:00:00
                                                                25-JAN-17 17:00
                                                       14.99
 25-JAN-17
                17:01:00
                                                       8.99
                                                                 25-JAN-17
                                                                              19:00
 26-JAN-17
                09:00:00
                                                       15.99
 12-FEB-17
                12:30:00
                                                       7.99
 25-APR-17
                10:10:10
                                                       24.99
 31-MAY-17
                16:35:30
                                                       149
                                                                10-NOV-23 17:16
 Download CSV
```

4. Insert a new row that will use the current date and time to set the new price of the premium bat to be 99.99.

```
1 values(sysdate, sysdate, 99.99, 'im01101048');
2 values(sysdate, sysdate, 99.99, 'im01101048');
1 row(s) inserted.
```

5. Rerun the select statement on the price\_history table to ensure that the statement has been executed.

```
1 _{\rm V} SELECT start date, TO_CHAR (start time, 'HH24:\underline{\rm MI:SS}'), price, end_date, TO_CHAR
2 (end time, 'HH24:MI')
3 FROM price history;
 START_DATE
               TO_CHAR(START_TIME, 'HH24:MI:SS') PRICE
                                                             END_DATE
                                                                         TO_CHAR(END_TIME, 'HH24:MI')
 10-NOV-23
               17:17:58
                                                    99.99
 17-JUN-17
               09:00:00
                                                    4.99
 25-NOV-16
               09:00:00
                                                    14.99
                                                            25-JAN-17 17:00
 25-JAN-17
               17:01:00
                                                            25-JAN-17 19:00
                                                    8.99
 26-JAN-17
               09:00:00
                                                    15.99
 12-FEB-17
              12:30:00
                                                    7.99
 25-APR-17
              10:10:10
                                                    24.99
 31-MAY-17
              16:35:30
                                                    149
                                                            10-NOV-23 17:17
```

#### Part 2: Deleting rows from the system

1. Bob Thornberry has contacted Obl to ask that the 83 Barrhill Drive address be removed from the system as he can longer receive parcels at this address. Write a SQL statement that will remove this address from the system.

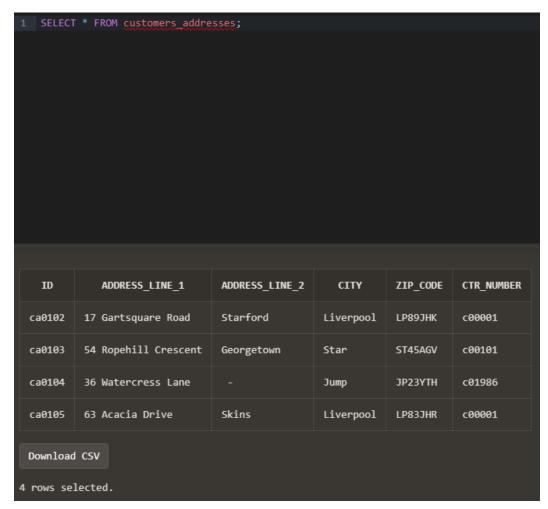


Before DELETE statement.

```
1 PELETE FROM customers addresses WHERE id = 'ca0101':

1 row(s) deleted.
```

2. Run a select statement on the customers\_addresses table to ensure that the statement has been executed.



After DELETE statement.