UNIVERSITI TEKNOLOGI MALAYSIA

SEMESTER 1, SESSION 2023/2024

# EXERCISE 2

**SECD2523 : DATABASE**

**SECTION 10**

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Marks :

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

There are no errors made.

**Part 2- Inserting rows to the system 1.**

**Add a new team to the system**

```
1  INSERT INTO teams (id, name, number_of_players, discount)
2  VALUES('t004', 'Jets', 10 , 5 );
```

**Output**

```
1 row(s) inserted.
```

**2) Add a new Customer with the following details to the system**

```
1  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', '-5' , 'Ic4587');
```

**Output**

```
1 row(s) inserted.
```

**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  UPDATE customers
2  SET current_balance = 50
3  WHERE ctr_number = 'c02001';
```

**Output**

```
1 row(s) inserted.
```

**Section 6 Lesson 4 Exercise 2: Data Manipulation Language**

**Part 1- Updating rows to the system 1.**

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  SELECT start_date, TO_CHAR(start_time, 'HH24:MI:SS') AS formatted_start_time, price, end_date, TO_CHAR(end_time, 'HH24:MI') AS formatted_end_time
2  FROM
3    price_history;
4
```

| START_DATE | FORMATTED_START_TIME | PRICE | END_DATE | FORMATTED_END_TIME |
|---|---|---|---|---|
| 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 | 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 | - | - |

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;



1 row(s) updated.
```

3) 3. Rerun the select statement on the price_history table to ensure that the statement has been executed.

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

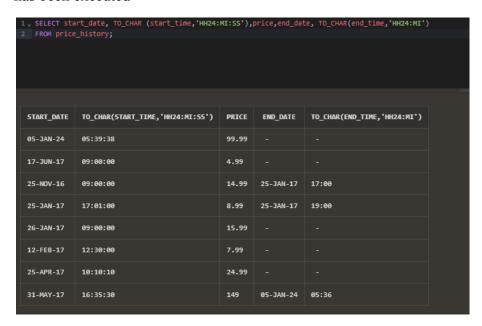| START_DATE | TO_CHAR(START_TIME,'HH24:MI:SS') | PRICE | END_DATE | TO_CHAR(END_TIME,'HH24:MI') |
|---|---|---|---|---|
| 17-JUN-17 | 09:00:00 | 4.99 | - | - |
| 25-NOV-16 | 09:00:00 | 14.99 | 25-JAN-17 | 17:00 |
| 25-JAN-17 | 17:01:00 | 8.99 | 25-JAN-17 | 19:00 |
| 26-JAN-17 | 09:00:00 | 15.99 | - | - |
| 12-FEB-17 | 12:30:00 | 7.99 | - | - |
| 25-APR-17 | 10:10:10 | 24.99 | - | - |
| 31-MAY-17 | 16:35:30 | 149 | 05-JAN-24 | 05:36 |

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

| START_DATE | TO_CHAR(START_TIME,'HH24:MI:SS') | PRICE | END_DATE | TO_CHAR(END_TIME,'HH24:MI') |
|---|---|---|---|---|
| 05-JAN-24 | 05:39:38 | 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 | 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 | 05-JAN-24 | 05:36 |

**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.

```
1  DELETE FROM customers_addresses
2  WHERE address_line_1 = '83 Barrhill Drive';
3
```

**Output**

```
1 row(s) deleted.
```

2) Run a select statement on the customers_addresses table to ensure that the statement has been executed.

```
1   SELECT*FROM customers_addresses;
```

| ID | ADDRESS_LINE_1 | ADDRESS_LINE_2 | CITY | 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 |

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4 rows selected.