

## Exercise 1

1. Add a new team to the system

id	name	Number_of_players	discount
t004	Jets	10	5

```
INSERT INTO ordered_items (quantity_ordered, quantity_shipped, odr_id, itm_number)
VALUES(1, 1, 'or0101750', 'im01101048');

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

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
1 t001	Rockets	25	10
2 t002	Celtics	42	20
3 t003	Rovers	8	(null)
4 t004	Jets	10	5

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		

```
INSERT INTO customers (ctr_number, email, first_name, last_name, phone_number, current_balance, loyalty_card_number)
VALUES('c02001', 'brianrog@hoote.ch.com', 'Brian', 'Rogers', '01654564898', -5, 'lc4587');
```

Script Output

Task completed in 0.129 seconds

1 row inserted.

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)
2 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015
3 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
4 c00103	MurciaA@globaltech.com	Andrew	Marcia	07715246890	85	(null)	(null)	lc2341
5 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
6 c02001	brianrog@hoote.ch.com	Brian	Rogers	01654564898	-5	(null)	(null)	lc4587

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.

```
UPDATE customers
SET current_balance = 50
WHERE current_balance < 0;
```

Script Output x

Task completed in 0.112 seconds

1 row updated.

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 c00001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)
2 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0 (null)	(null)	(null)	lc1015
3 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)
4 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85 (null)	(null)	(null)	lc2341
5 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)
6 c02001	brianrog@hoote.ch.com	Brian	Rogers	01654564898	50 (null)	(null)	(null)	lc4587

## Exercise 2-Part 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;
```

The screenshot shows the SQL Developer interface. The 'Script' tab is active, displaying a series of SQL statements. The last statement is the query to view the price\_history table. The 'Query Result' tab is also visible, showing the results of the query. The results are displayed in a table with 5 columns: START\_DATE, TO\_CHAR(START\_TIME, 'HH24:MI:SS'), PRICE, END\_DATE, and TO\_CHAR(END\_TIME, 'HH24:MI'). There are 7 rows of data.

	START_DATE	TO_CHAR(START_TIME, 'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME, 'HH24:MI')
1	17/06/2017	09:00:00	4.99 (null)	(null)	(null)
2	25/11/2016	09:00:00	14.99	25/01/2017	17:00
3	25/01/2017	17:01:00	8.99	25/01/2017	19:00
4	26/01/2017	09:00:00	15.99 (null)	(null)	(null)
5	12/02/2017	12:30:00	7.99 (null)	(null)	(null)
6	25/04/2017	10:10:10	24.99 (null)	(null)	(null)
7	31/05/2017	16:35:30	149 (null)	(null)	(null)

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.

The screenshot shows the SQL Developer interface. The 'Script' tab is active, displaying an UPDATE statement for the price\_history table. The 'Query Result' tab is also visible, showing the result of the query: '1 row updated.'

```
UPDATE price_history  
SET end_date = SYSDATE, end_time = SYSDATE  
WHERE itm_number = 'im01101045' AND end_date is null;
```

1 row updated.

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

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

	START_DATE	TO_CHAR(START_TIME, 'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME, 'HH24:MI')
1	17/06/2017	09:00:00	4.99 (null)	(null)	(null)
2	25/11/2016	09:00:00	14.99	25/01/2017	17:00
3	25/01/2017	17:01:00	8.99	25/01/2017	19:00
4	26/01/2017	09:00:00	15.99	10/11/2023	16:57
5	12/02/2017	12:30:00	7.99 (null)	(null)	(null)
6	25/04/2017	10:10:10	24.99 (null)	(null)	(null)
7	31/05/2017	16:35:30	149 (null)	(null)	(null)

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.

```
INSERT INTO price_history (start_date, start_time, price, itm_number)
VALUES (SYSDATE, SYSDATE, 99.99, 'im01101048');
```

1 row inserted.

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

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

	START_DATE	TO_CHAR(START_TIME, 'HH24:MI:SS')	PRICE	END_DATE	TO_CHAR(END_TIME, 'HH24:MI')
1	17/06/2017	09:00:00	4.99 (null)	(null)	(null)
2	25/11/2016	09:00:00	14.99	25/01/2017	17:00
3	25/01/2017	17:01:00	8.99	25/01/2017	19:00
4	26/01/2017	09:00:00	15.99	10/11/2023	16:57
5	12/02/2017	12:30:00	7.99 (null)	(null)	(null)
6	25/04/2017	10:10:10	24.99 (null)	(null)	(null)
7	31/05/2017	16:35:30	149 (null)	(null)	(null)
8	10/11/2023	17:07:48	99.99 (null)	(null)	(null)

## Exercise 2-Part 2

1. Bob Thornberry has contacted Obl to ask that the 83 Barrhill Drive address be removed from the system as he can no longer receive parcels at this address. Write a SQL statement that will remove this address from the system.

```
DELETE FROM customers_addresses
WHERE id='ca0101';
```

Script Output x Query Result x

Task completed in 0.34 seconds

1 row deleted.

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

Before deletion:

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_CODE	CTR_NUMBER
1	ca0102	17 Gartsquare Road	Starford	Liverpool	LP89JHK c00001
2	ca0103	54 Ropehill Crescent	Georgetown	Star	ST45AGV c00101
3	ca0104	36 Watercress Lane	(null)	Jump	JP23YTH c01986
4	ca0105	63 Acacia Drive	Skins	Liverpool	LP83JHR c00001
5	ca0101	83 Barrhill Drive	(null)	Liverpool	LP79HJK c00001

After deletion:

```
DELETE FROM customers_addresses
WHERE id='ca0101';

SELECT * FROM customers_addresses;
```

Script Output x Query Result x

Task completed in 0.612 seconds

ID	ADDRESS_LINE_1	ADDRESS_LINE_2	CITY	ZIP_COD	CTR_NU
ca0102	17 Gartsquare Road	Starford	Liverpool	LP89JHK	c00001
ca0103	54 Ropehill Crescent	Georgetown	Star	ST45AGV	c00101
ca0104	36 Watercress Lane	(null)	Jump	JP23YTH	c01986
ca0105	63 Acacia Drive	Skins	Liverpool	LP83JHR	c00001