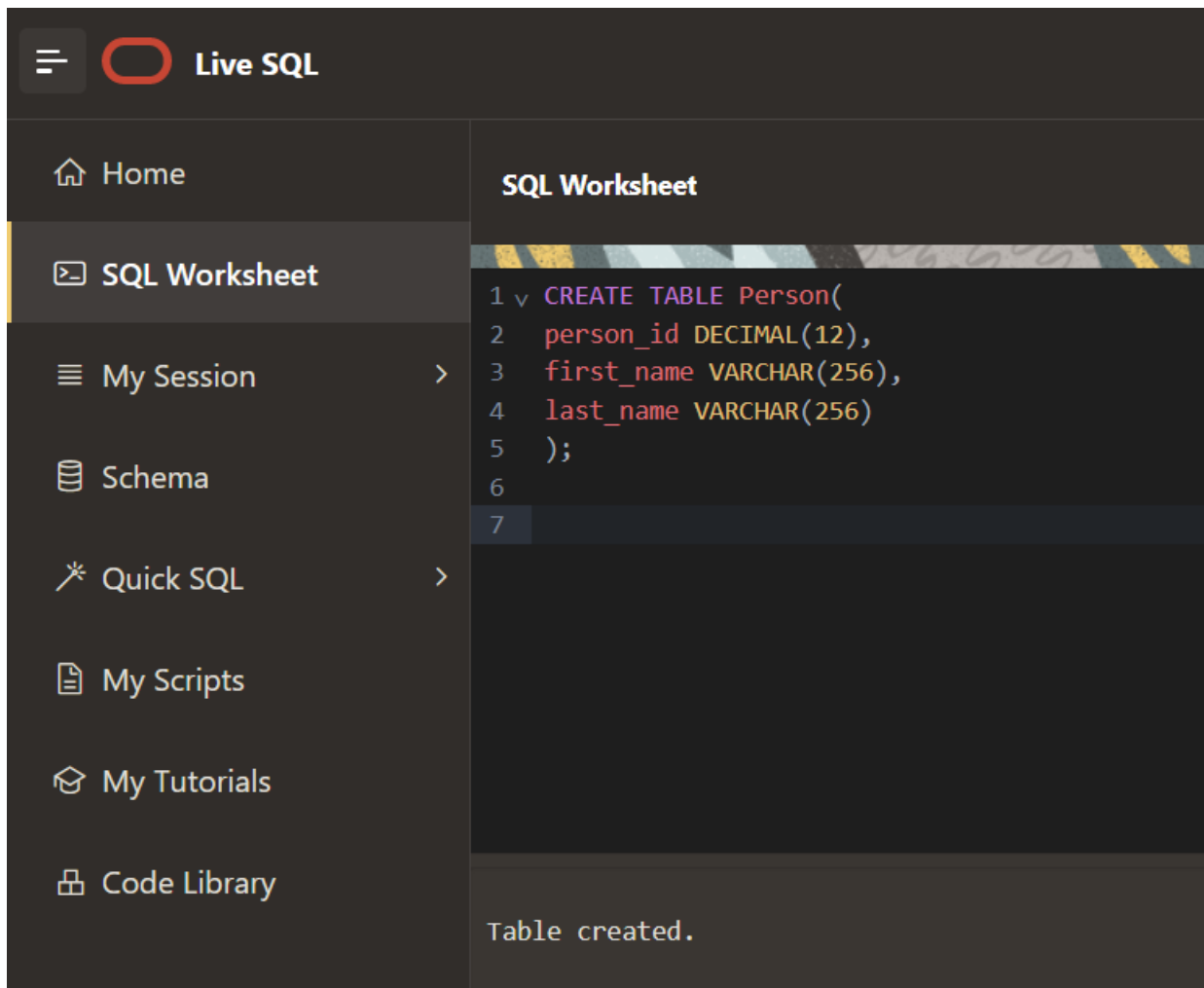


# Lab 1 – Submission Sheet

## Section One

### 1. CREATE TABLE (Screen Shot)



The screenshot displays the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a code editor with the following SQL statement:

```
1 CREATE TABLE Person(  
2   person_id DECIMAL(12),  
3   first_name VARCHAR(256),  
4   last_name VARCHAR(256)  
5 );  
6  
7
```

Below the code editor, a status message reads 'Table created.'

## 2. INSERT (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

SQL Worksheet

1

▼

INSERT INTO Person(person\_id, first\_name, last\_name)

2

VALUES(01, 'John', 'Smith');

1 row(s) inserted.

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

SQL Worksheet

1 SELECT \*

2 FROM Person

PERSON_ID	FIRST_NAME	LAST_NAME
1	John	Smith

Download CSV



#### 4. UPDATE (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library


SQL Worksheet


1 v UPDATE PERSON


2 SET last\_name = 'Glass';


1 row(s) updated.


5. SELECT (Screen Shot)





 Live SQL


 Home


 SQL Worksheet


 My Session >

 Schema


 Quick SQL >

 My Scripts

 My Tutorials

 Code Library

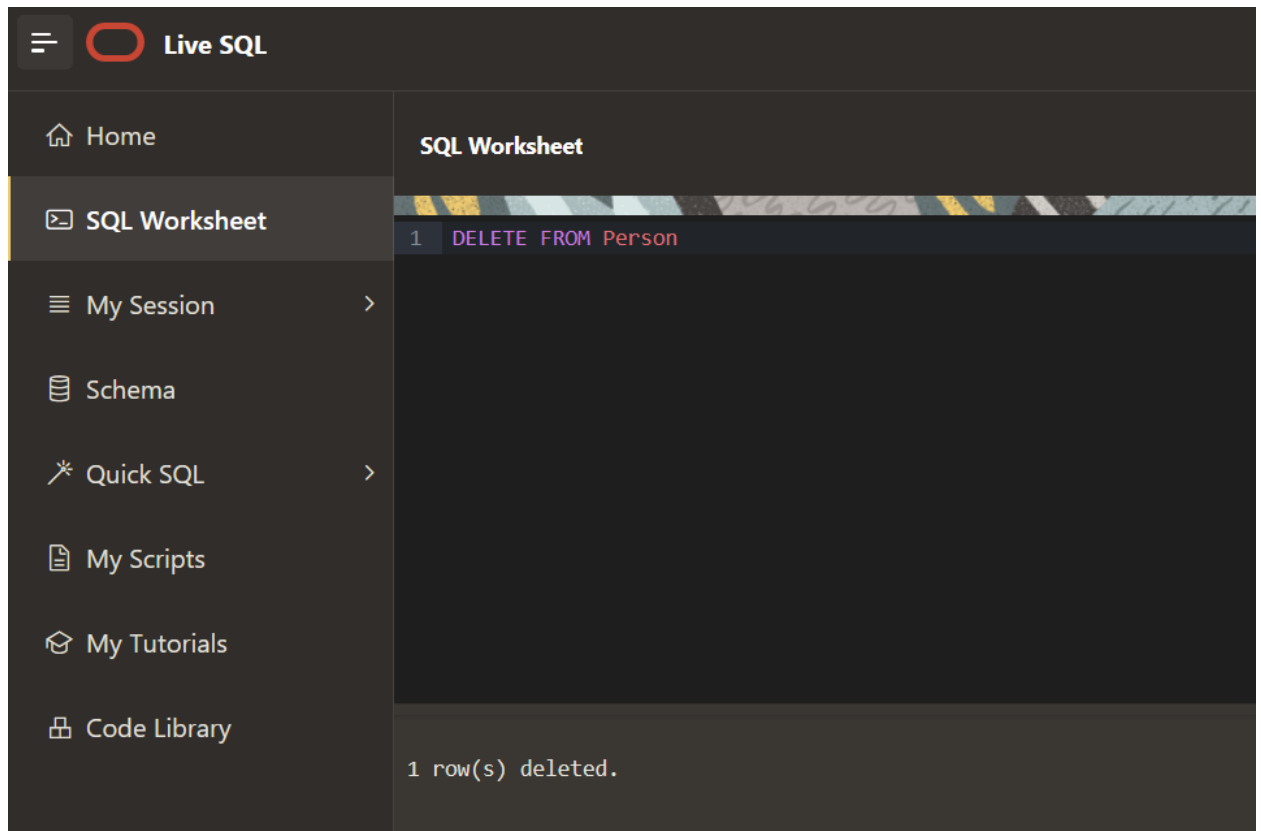
SQL Worksheet

1  SELECT \*

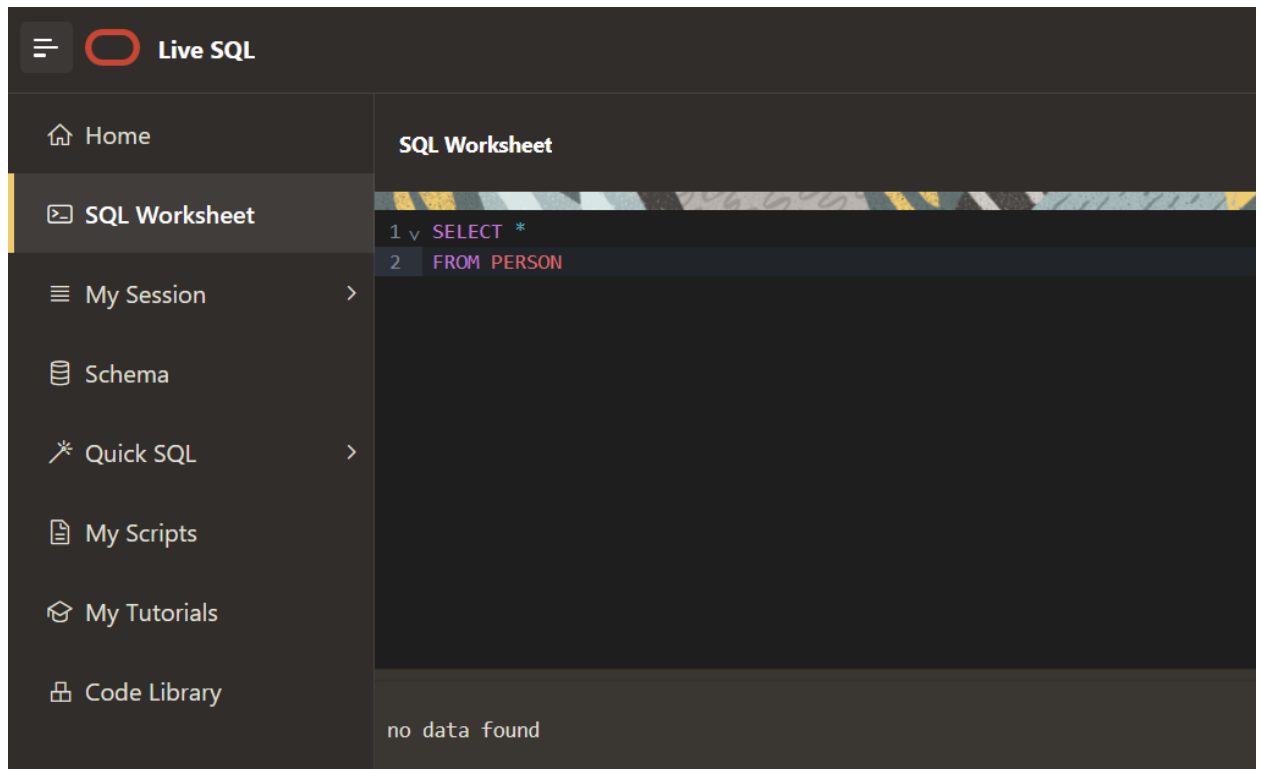
2 FROM PERSON

PERSON_ID	FIRST_NAME	LAST_NAME
1	John	Glass

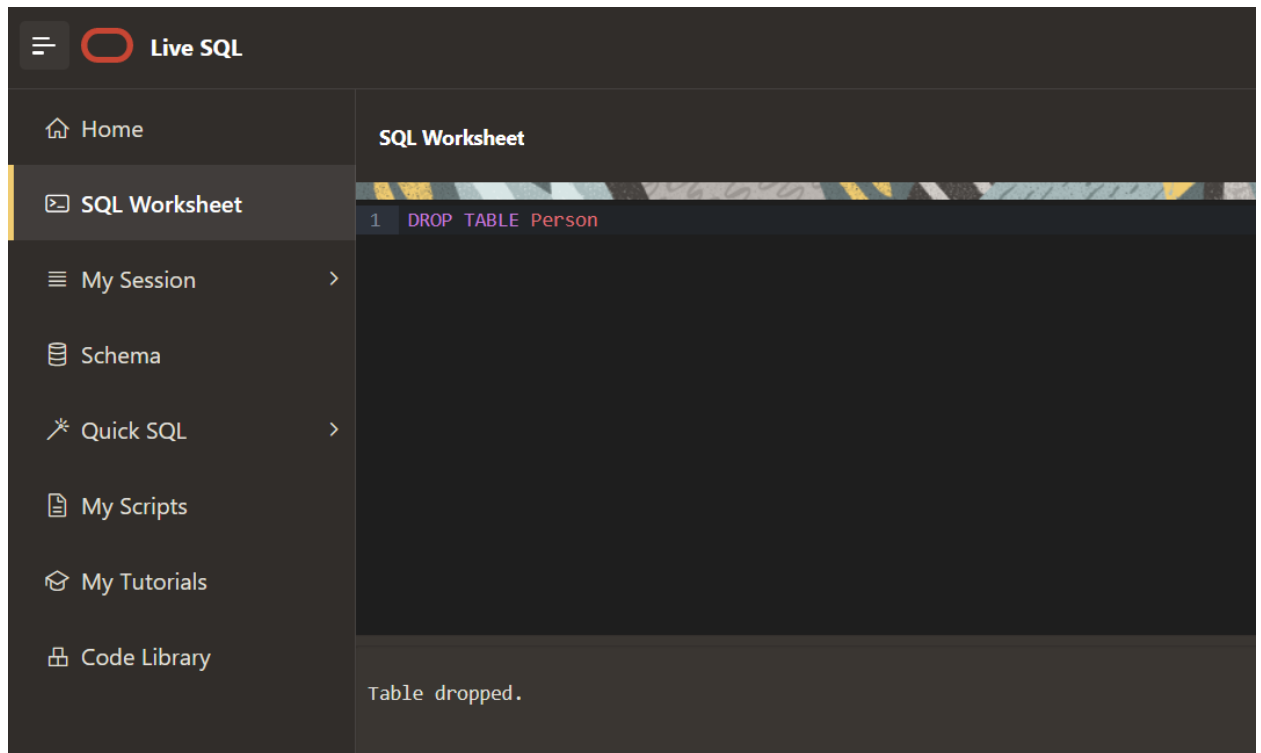
6. DELETE (Screen Shot)



7. SELECT (Screen Shot)



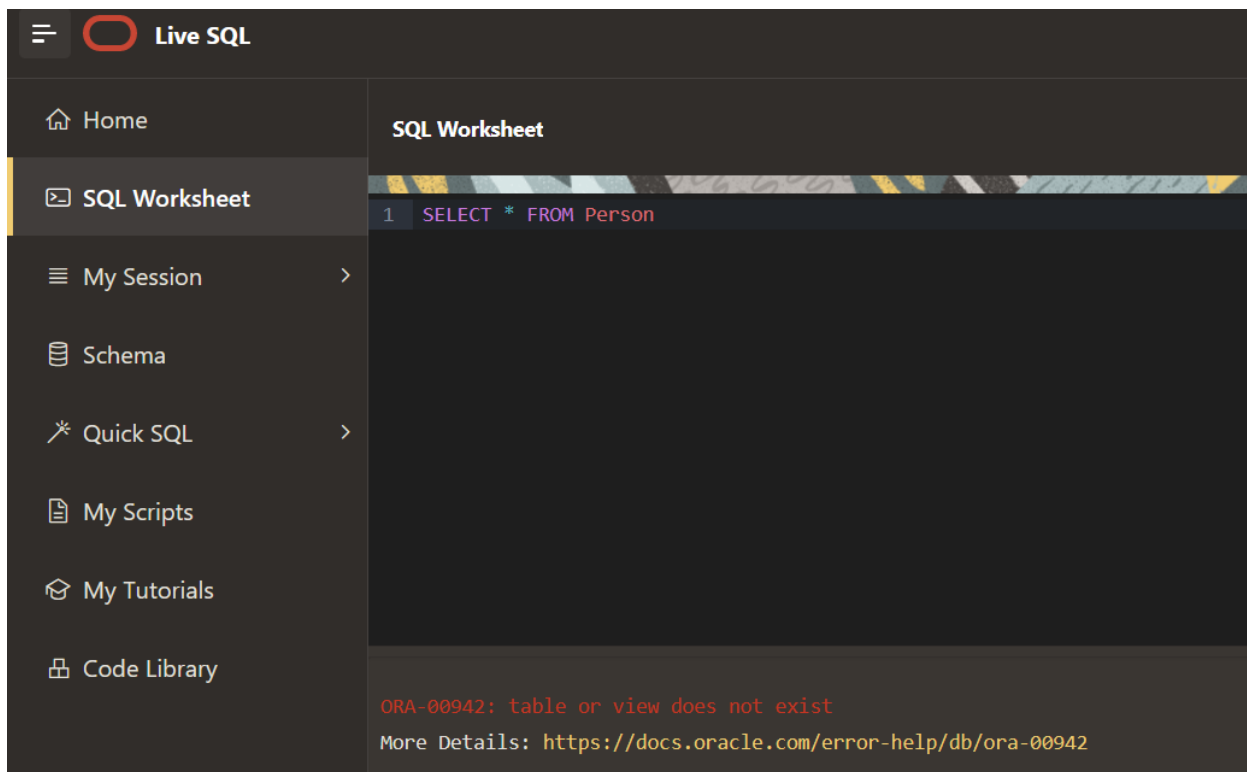
## 8. DROP TABLE (Screen Shot)



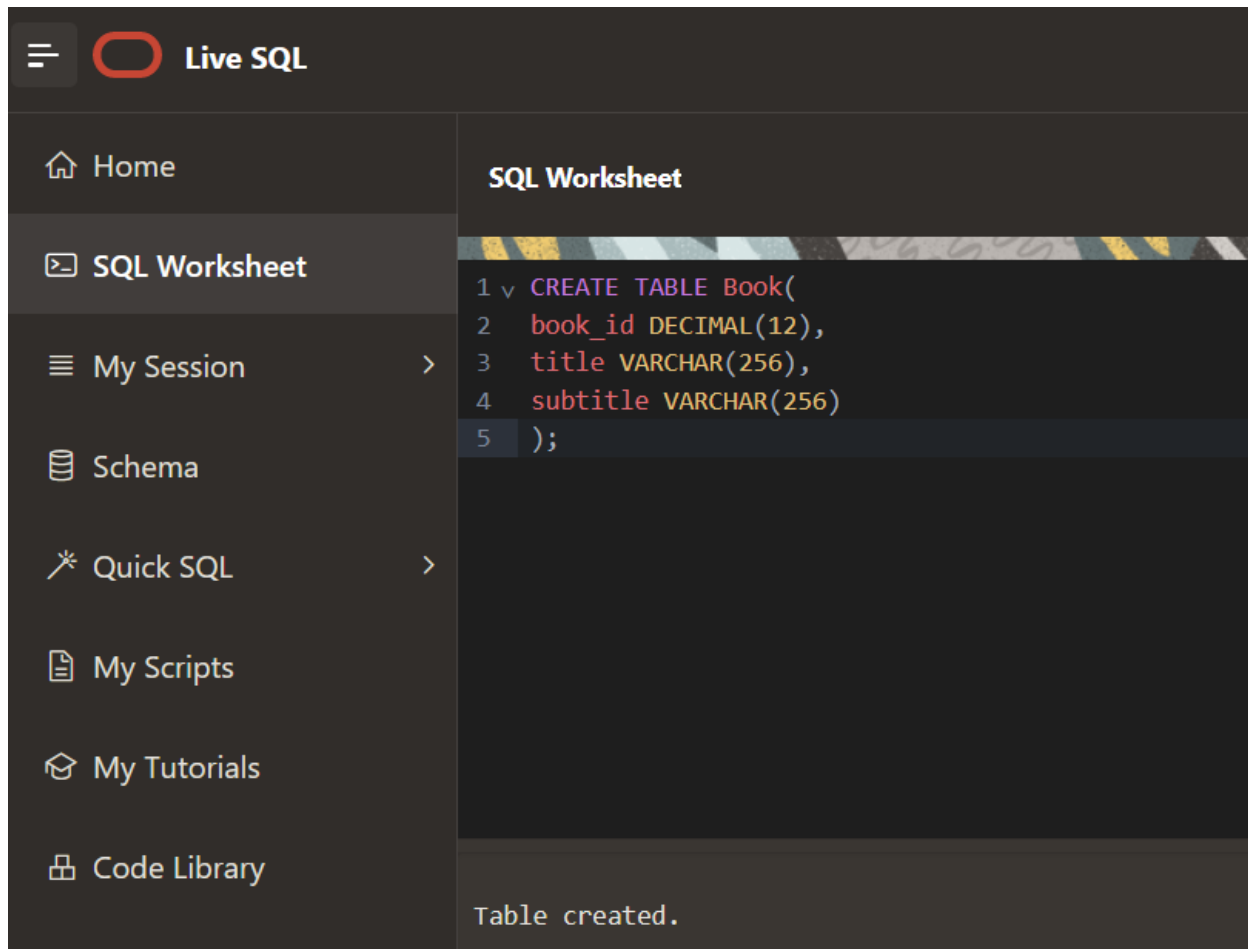


## Section Two

### 9. SELECT (Screen Shot)



## 10. CREATE TABLE (Screen Shot)

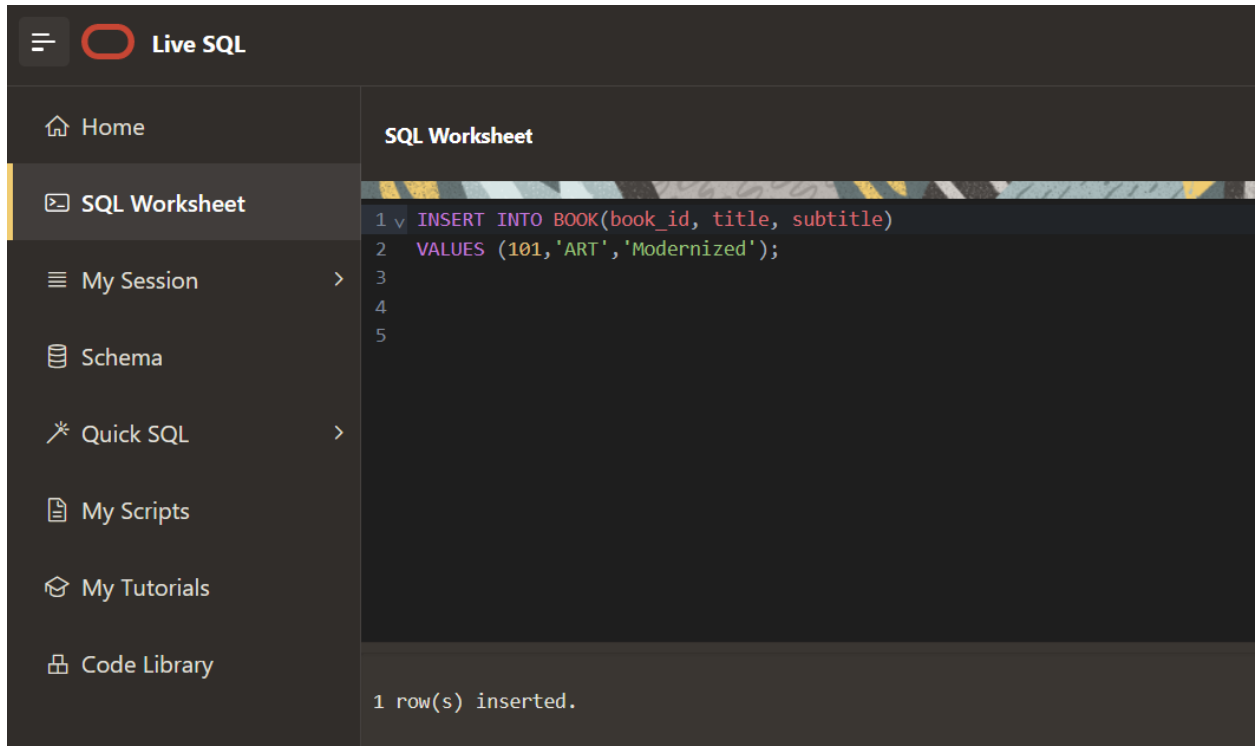


The screenshot displays the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with the following SQL code:

```
1 CREATE TABLE Book(  
2   book_id DECIMAL(12),  
3   title VARCHAR(256),  
4   subtitle VARCHAR(256)  
5 );
```

Below the code editor, a status message indicates the result of the execution: 'Table created.'

## 11. INSERT (Screen Shot)



The screenshot displays the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains an SQL editor with the following code:

```
1 v INSERT INTO BOOK(book_id, title, subtitle)
2 VALUES (101, 'ART', 'Modernized');
3
4
5
```

Below the editor, the execution result is shown: '1 row(s) inserted.'

## 12. SELECT (Screen Shot)

Live SQL

Home

SQL Worksheet

My Session

Schema

Quick SQL

My Scripts

My Tutorials

Code Library

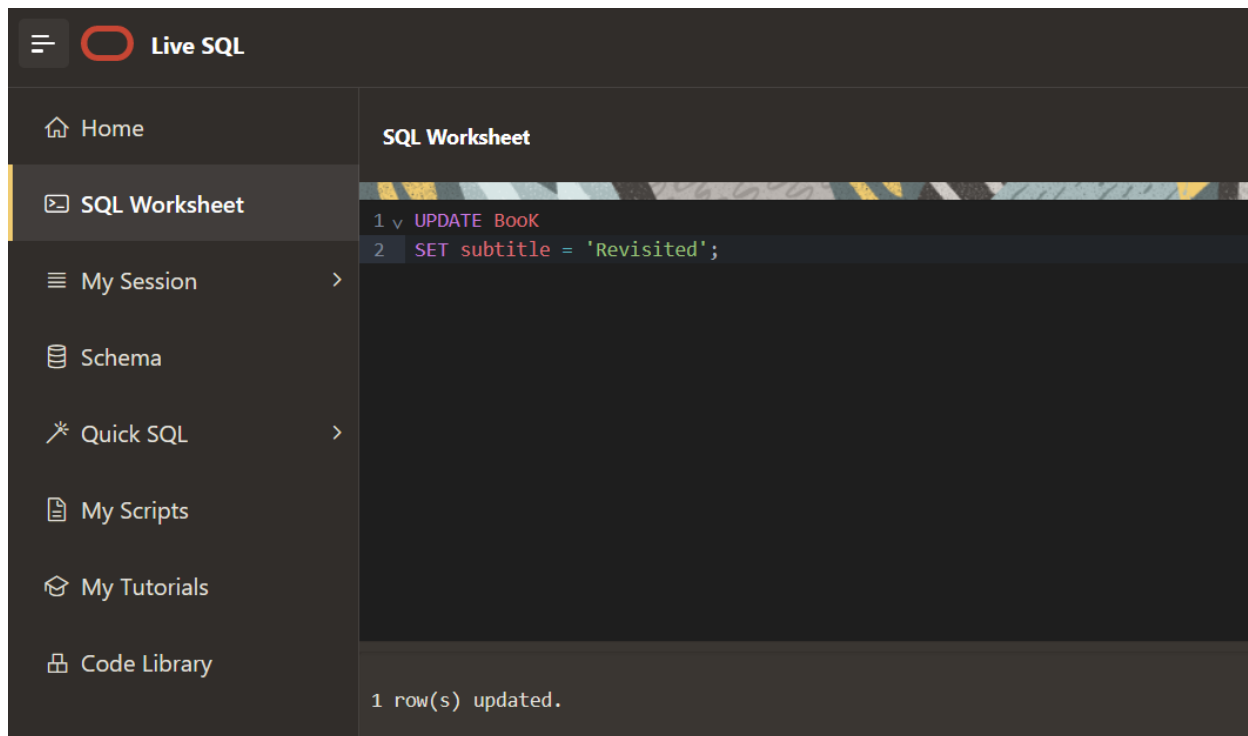
SQL Worksheet

1 SELECT \* FROM Book

BOOK_ID	TITLE	SUBTITLE
101	ART	Modernized

Download CSV

### 13. UPDATE (Screen Shot)



#### 14. SELECT (Screen Shot)

—

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

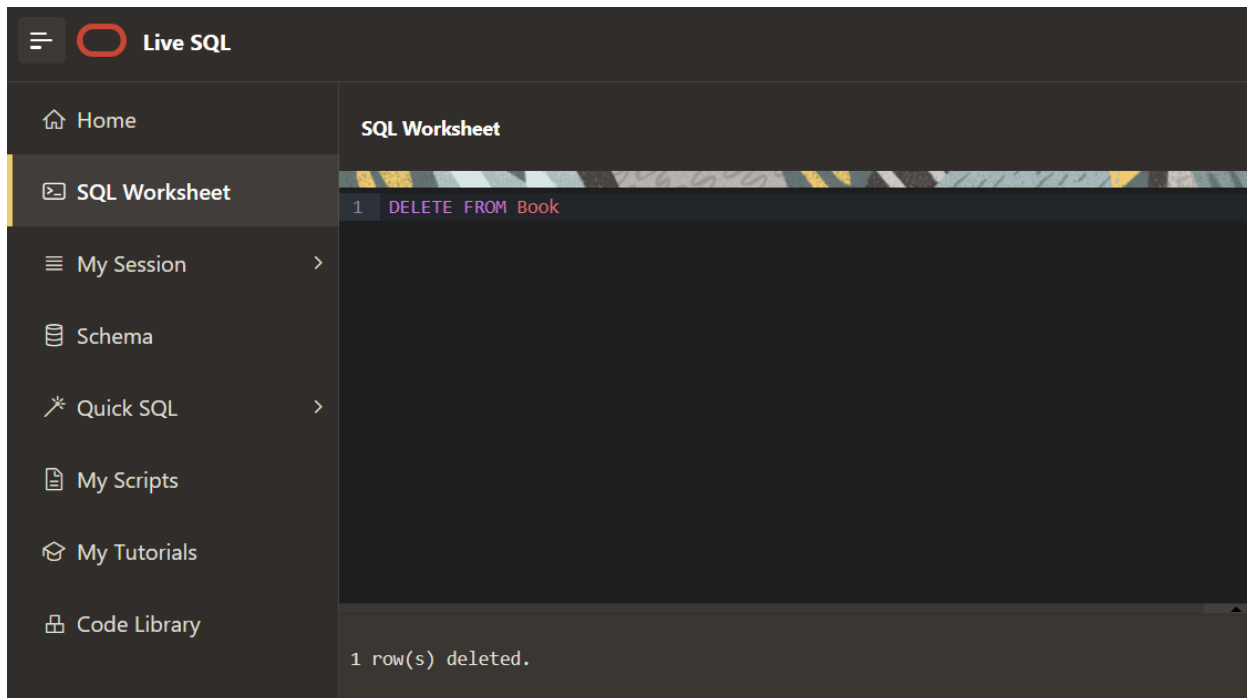
SQL Worksheet

1 Select \* FROM Book



BOOK_ID	TITLE	SUBTITLE
101	ART	Revisited


Download CSV


## 15. DELETE (Screen Shot)





16. SELECT (Screen Shot)


Live SQL


Home


SQL Worksheet


My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

SQL Worksheet

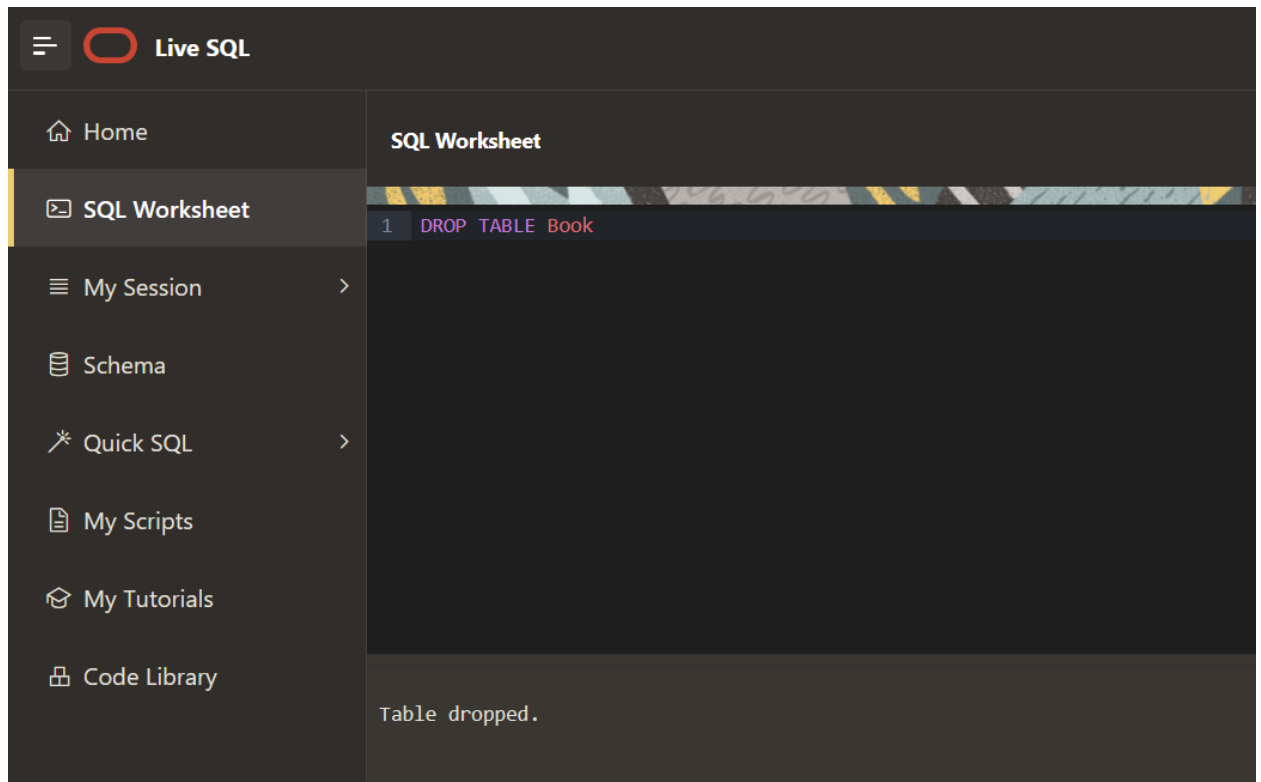
1

SELECT \* FROM Book

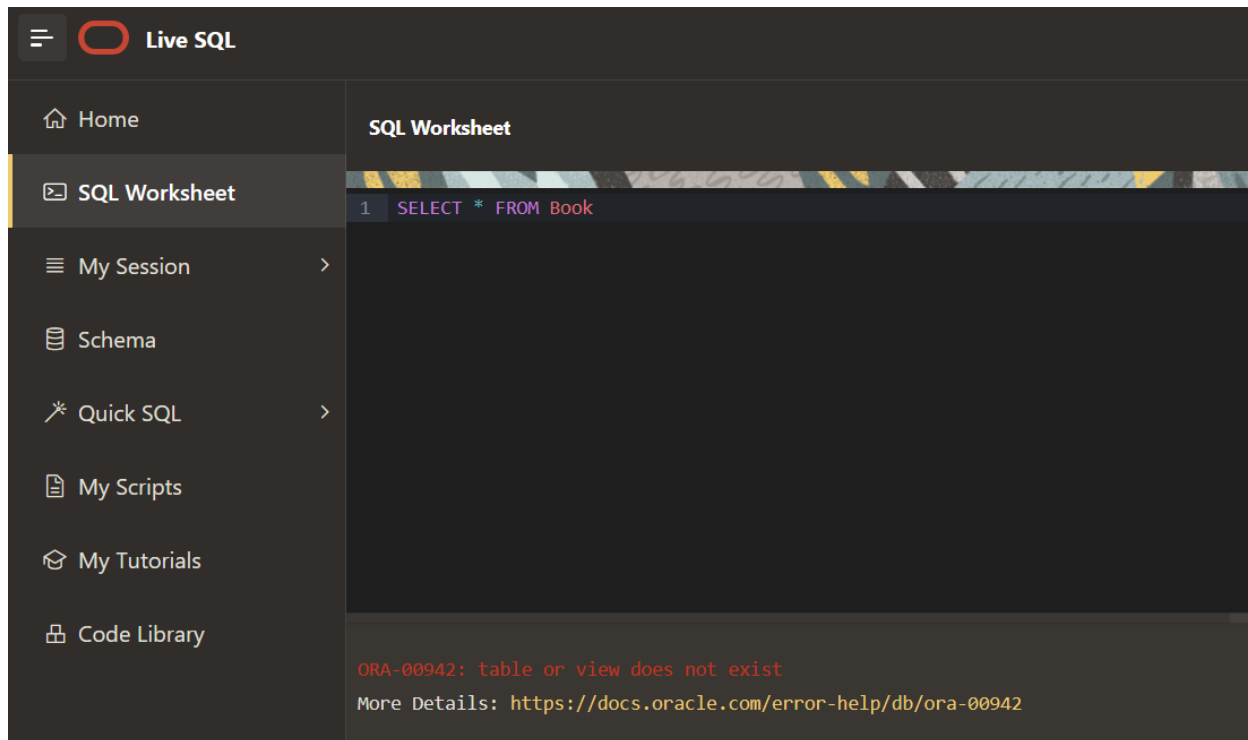
no data found



## 17. DROP TABLE (Screen Shot)



## 18. SELECT (Screen Shot)



## 19. EXPLANATION

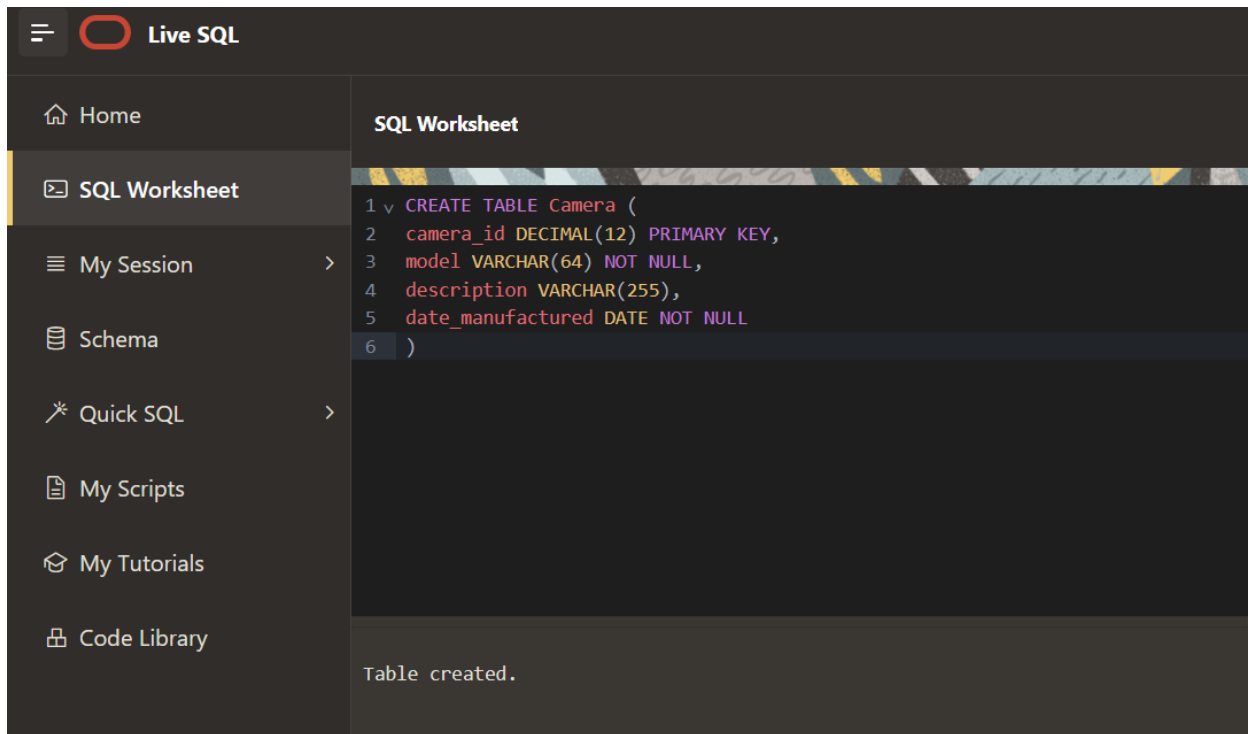
The error message resulting from Step 18, in conjunction with the SQL command helps to diagnose the issue by referring to the documentation of the Oracle (Database Error Message).

According to the documentation, the cause of this error is that the table or the view does not exist. Furthermore, the following action can be taken:

- Check if the spelling of the table or view is entered correctly.
- Check if the referred table or view does exist.
- Check the synonym point to an existing table or view.

## Section Three

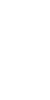
### 20. CREATE TABLE (Screen Shot)



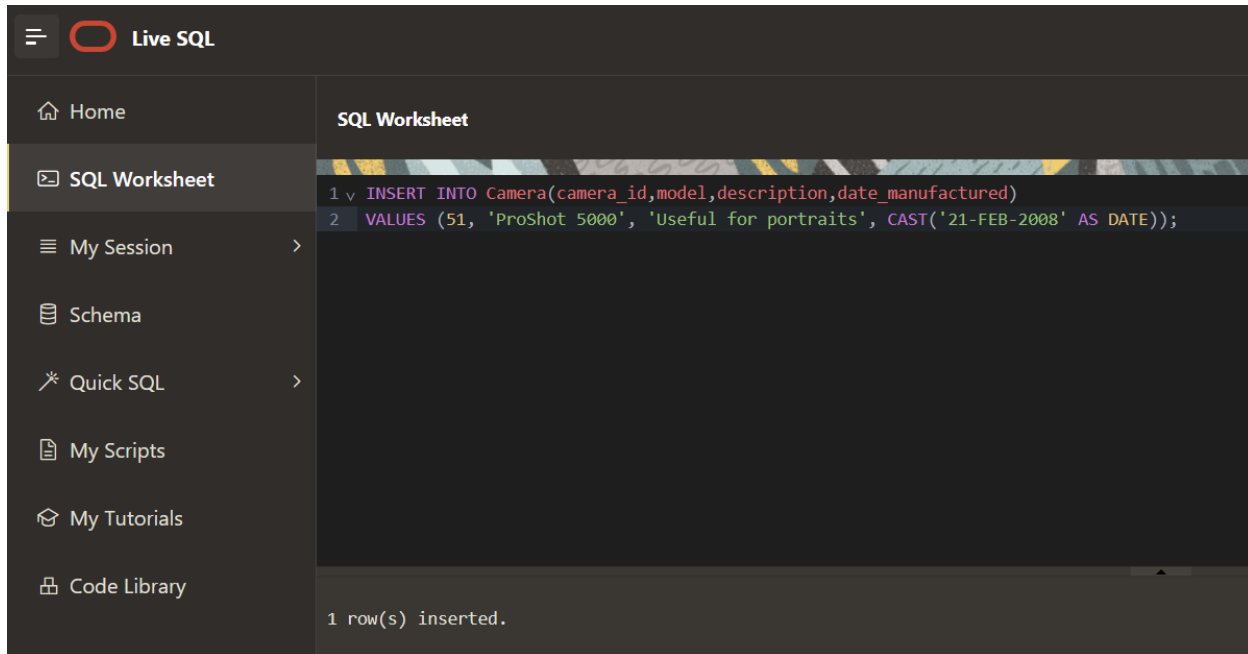
The screenshot displays the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a SQL script for creating a table named 'Camera'. The script is as follows:

```
1 CREATE TABLE Camera (  
2   camera_id DECIMAL(12) PRIMARY KEY,  
3   model VARCHAR(64) NOT NULL,  
4   description VARCHAR(255),  
5   date_manufactured DATE NOT NULL  
6 )
```

Below the script, a message indicates the successful execution: 'Table created.'



## 21. INSERT (Screen Shot)

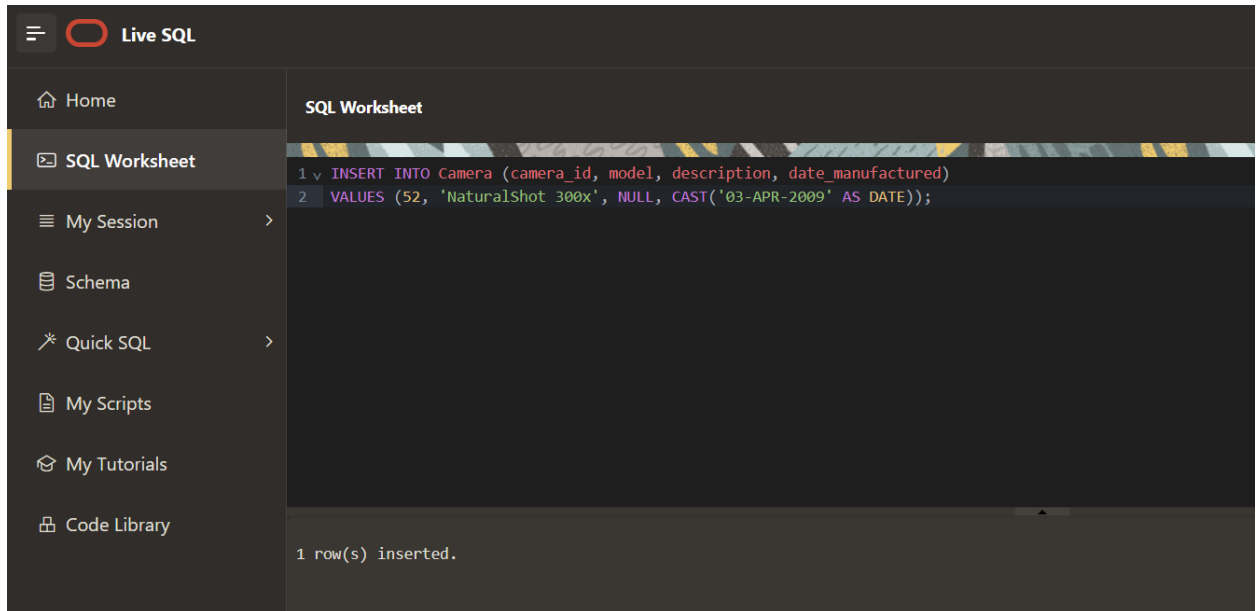


The screenshot shows the 'Live SQL' application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code: `1 INSERT INTO Camera(camera_id,model,description,date_manufactured)` and `2 VALUES (51, 'ProShot 5000', 'Useful for portraits', CAST('21-FEB-2008' AS DATE));`. At the bottom of the main area, the execution result is displayed: '1 row(s) inserted.'

```
1 INSERT INTO Camera(camera_id,model,description,date_manufactured)
2 VALUES (51, 'ProShot 5000', 'Useful for portraits', CAST('21-FEB-2008' AS DATE));
```

1 row(s) inserted.

## 22. INSERT (Screen Shot)



The screenshot displays the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code: `1 INSERT INTO Camera (camera_id, model, description, date_manufactured)` and `2 VALUES (52, 'NaturalShot 300x', NULL, CAST('03-APR-2009' AS DATE));`. Below the code editor, the execution result is shown as '1 row(s) inserted.'

```
Live SQL
```

Home

SQL Worksheet

My Session

Schema

Quick SQL

My Scripts

My Tutorials

Code Library

SQL Worksheet

```
1 INSERT INTO Camera (camera_id, model, description, date_manufactured)
2 VALUES (52, 'NaturalShot 300x', NULL, CAST('03-APR-2009' AS DATE));
```

1 row(s) inserted.



### 23. INSERT (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

SQL Worksheet

```
1 v INSERT INTO Camera(camera_id, model, date_manufactured)
2 VALUES(53, 'StillShot 2012', CAST('05-JUN-2009' AS DATE));
```

1 row(s) inserted.

## 24. SELECT (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

SQL Worksheet

1 SELECT \* FROM Camera

CAMERA_ID	MODEL	DESCRIPTION	DATE_MANUFACTURED
52	NaturalShot 300x	-	03-APR-09
53	Stillshot 2012	-	05-JUN-09
51	ProShot 5000	Useful for portraits	21-FEB-08



## 25. INSERT (Screen Shot)

The screenshot shows the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code:   
1. `INSERT INTO Camera (camera_id, model, description, date_manufactured)`  
2. `VALUES (54, NULL, 'Multi-purpose camera', CAST('23-SEP-2009' AS DATE));`  
Below the code editor, an orange error message is displayed:   
`ORA-01400: cannot insert NULL into ("SQL_DBVJFRK00GMLLTPKAMTKRUVXG"."CAMERA"."MODEL") ORA-06512: at "SYS.DBMS_SQL", line 1721`  
At the bottom, a link for more details is provided: <https://docs.oracle.com/error-help/db/ora-01400>



## 26. SELECT (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

Code Library

SQL Worksheet

1 ✓ SELECT model, description FROM CAMERA

2 where camera\_id=51

MODEL	DESCRIPTION
ProShot 5000	Useful for portraits

Download CSV



## 27. UPDATE (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session >

Schema

Quick SQL >

My Scripts

My Tutorials

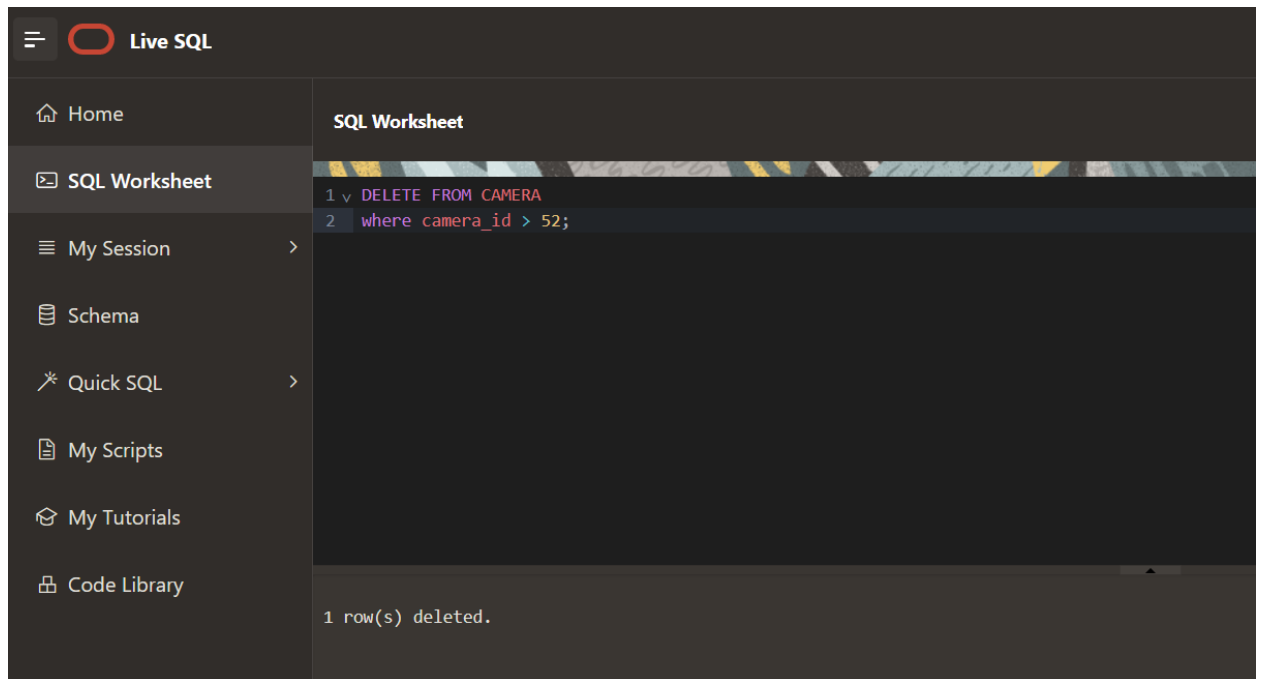
Code Library

SQL Worksheet

```
1 ✓ UPDATE CAMERA
2   SET description = 'Great for landscapes'
3   where camera_id = 52 OR camera_id = 53;
```

2 row(s) updated.

## 28. DELETE (Screen Shot)





## 29. SELECT (Screen Shot)

≡

Live SQL

Home

SQL Worksheet

My Session

Schema

Quick SQL

My Scripts

My Tutorials

Code Library

SQL Worksheet

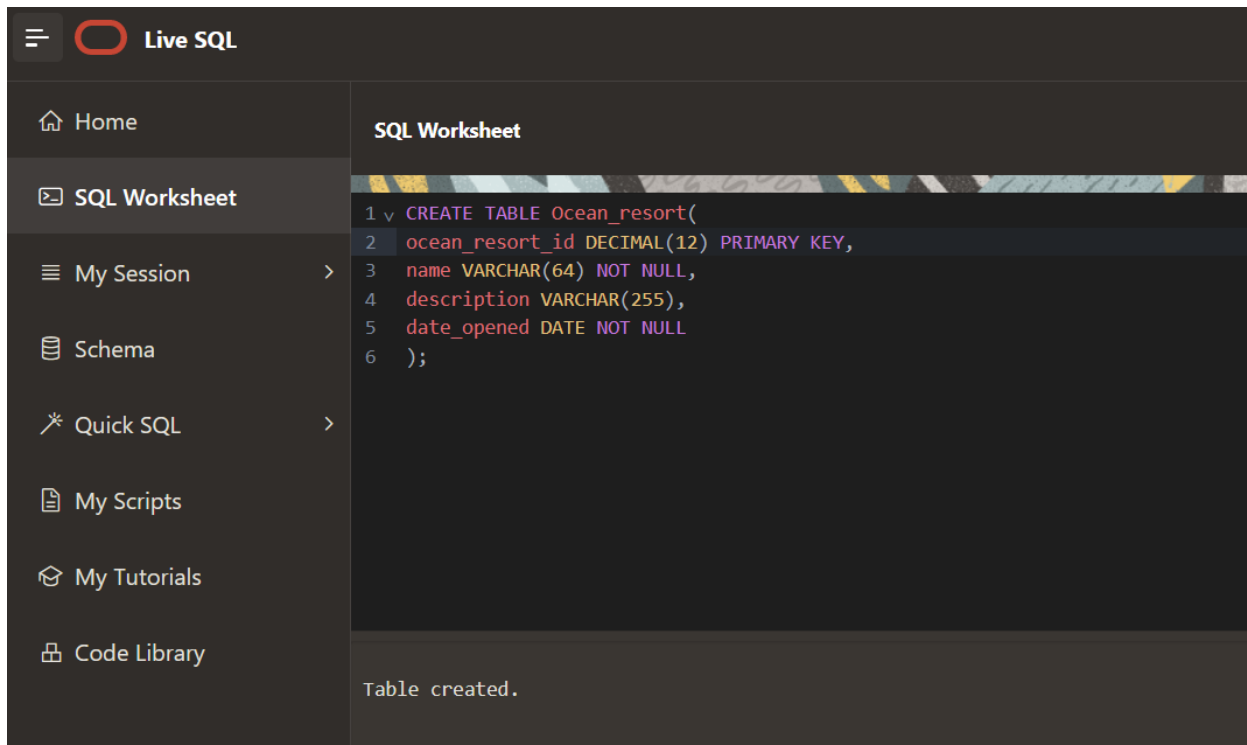
1 Select \* FROM CAMERA

2

CAMERA_ID	MODEL	DESCRIPTION	DATE_MANUFACTURED
52	NaturalShot 300x	Great for landscapes	03-APR-09
51	ProShot 5000	Useful for portraits	21-FEB-08

## Section Four

### 30. CREATE TABLE (Screen Shot)



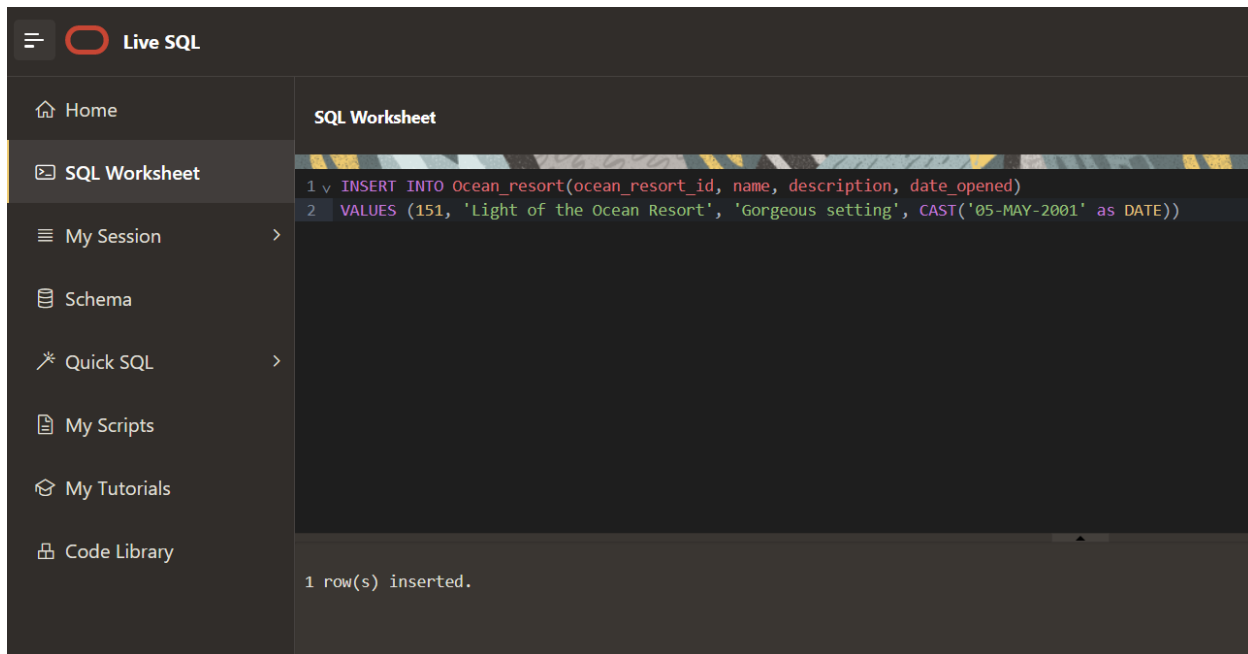
The screenshot displays the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a SQL script with line numbers 1 through 6. The script creates a table named 'Ocean\_resort' with columns 'ocean\_resort\_id' (DECIMAL(12) PRIMARY KEY), 'name' (VARCHAR(64) NOT NULL), 'description' (VARCHAR(255)), and 'date\_opened' (DATE NOT NULL). Below the script, a message states 'Table created.'.

```
1 v CREATE TABLE Ocean_resort(  
2   ocean_resort_id DECIMAL(12) PRIMARY KEY,  
3   name VARCHAR(64) NOT NULL,  
4   description VARCHAR(255),  
5   date_opened DATE NOT NULL  
6 );
```

Table created.



### 31. INSERT (Screen Shot)

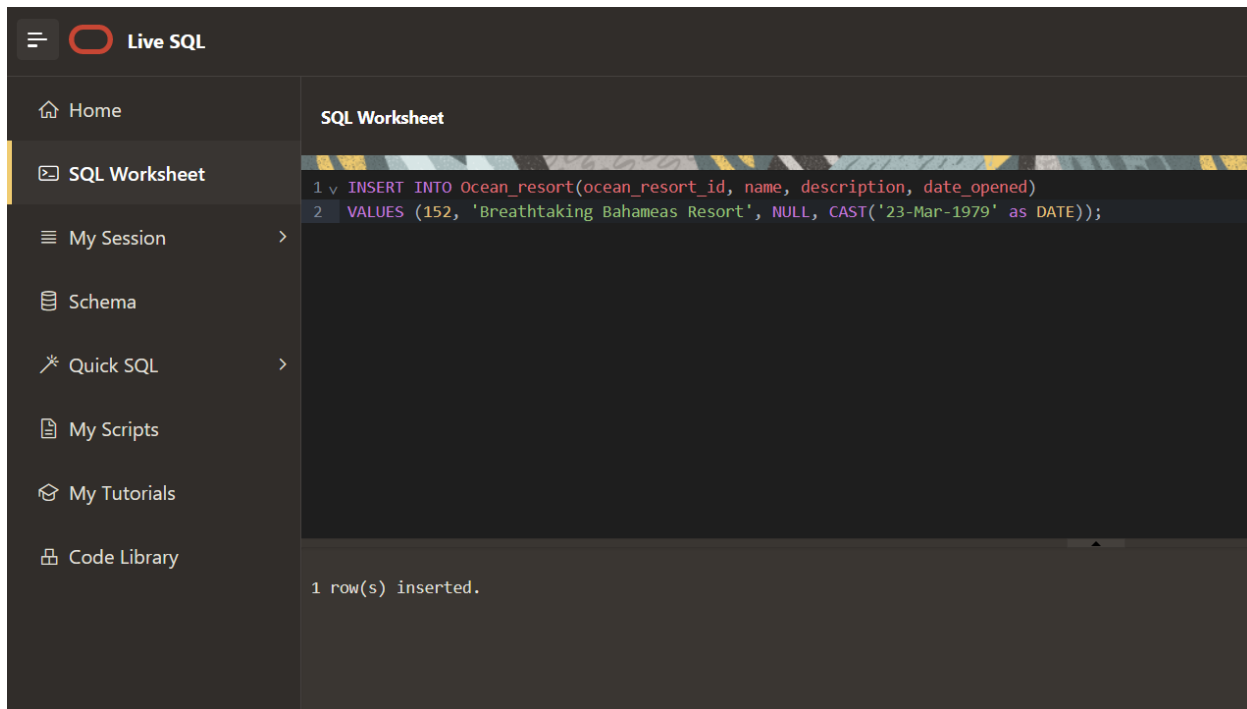


The screenshot shows the 'Live SQL' web application interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code: `1 INSERT INTO Ocean_resort(ocean_resort_id, name, description, date_opened)` and `2 VALUES (151, 'Light of the Ocean Resort', 'Gorgeous setting', CAST('05-MAY-2001' as DATE))`. Below the code, the execution result is displayed: '1 row(s) inserted.'

```
1 INSERT INTO Ocean_resort(ocean_resort_id, name, description, date_opened)
2 VALUES (151, 'Light of the Ocean Resort', 'Gorgeous setting', CAST('05-MAY-2001' as DATE))
```

1 row(s) inserted.

### 32. INSERT (Screen Shot)




The screenshot displays a web-based SQL editor interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code: `1 INSERT INTO Ocean_resort(ocean_resort_id, name, description, date_opened)` and `2 VALUES (152, 'Breathtaking Bahameas Resort', NULL, CAST('23-Mar-1979' as DATE));`. Below the code editor, the execution result is shown as `1 row(s) inserted.`

```
1 INSERT INTO Ocean_resort(ocean_resort_id, name, description, date_opened)
2 VALUES (152, 'Breathtaking Bahameas Resort', NULL, CAST('23-Mar-1979' as DATE));
```

1 row(s) inserted.



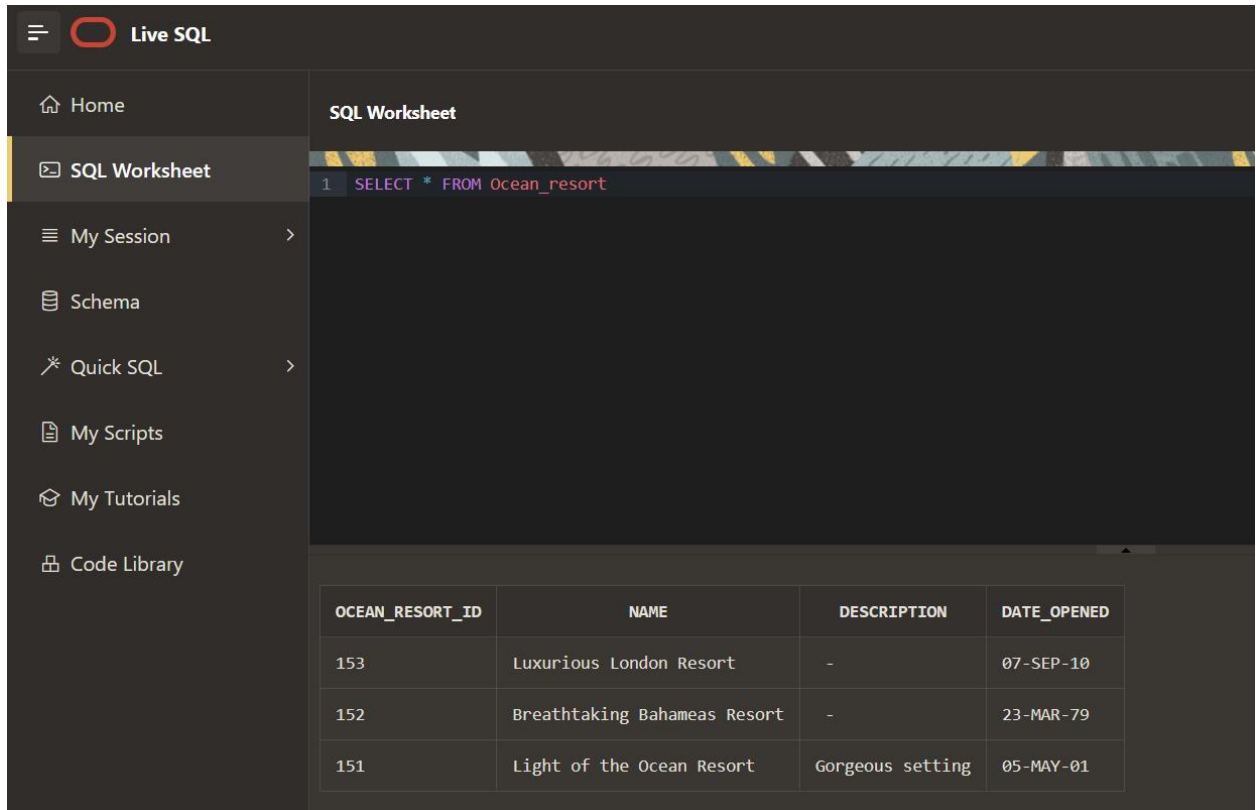
### 33. INSERT (Screen Shot)



The screenshot shows the 'Live SQL' application interface. On the left is a dark sidebar with navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code: `1 v INSERT INTO Ocean_resort(ocean_resort_id, name, date_opened)` and `2 VALUES (153, 'Luxurious London Resort', CAST('07-Sep-1910' as DATE));`. At the bottom of the main area, the execution result is displayed: `1 row(s) inserted.`



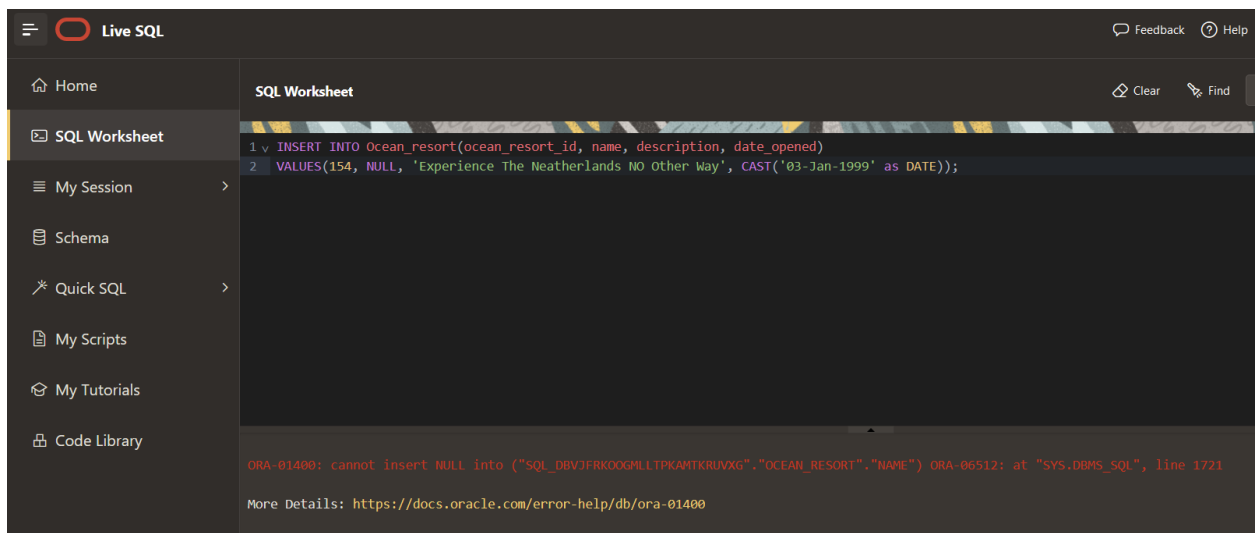
### 34. SELECT (Screen Shot)



The screenshot shows the Live SQL interface. The left sidebar contains navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled "SQL Worksheet" and displays the query: `1 SELECT * FROM Ocean_resort`. Below the query, the results are shown in a table:

OCEAN_RESORT_ID	NAME	DESCRIPTION	DATE_OPENED
153	Luxurious London Resort	-	07-SEP-10
152	Breathtaking Bahameas Resort	-	23-MAR-79
151	Light of the Ocean Resort	Gorgeous setting	05-MAY-01

### 35. INSERT (Screen Shot)

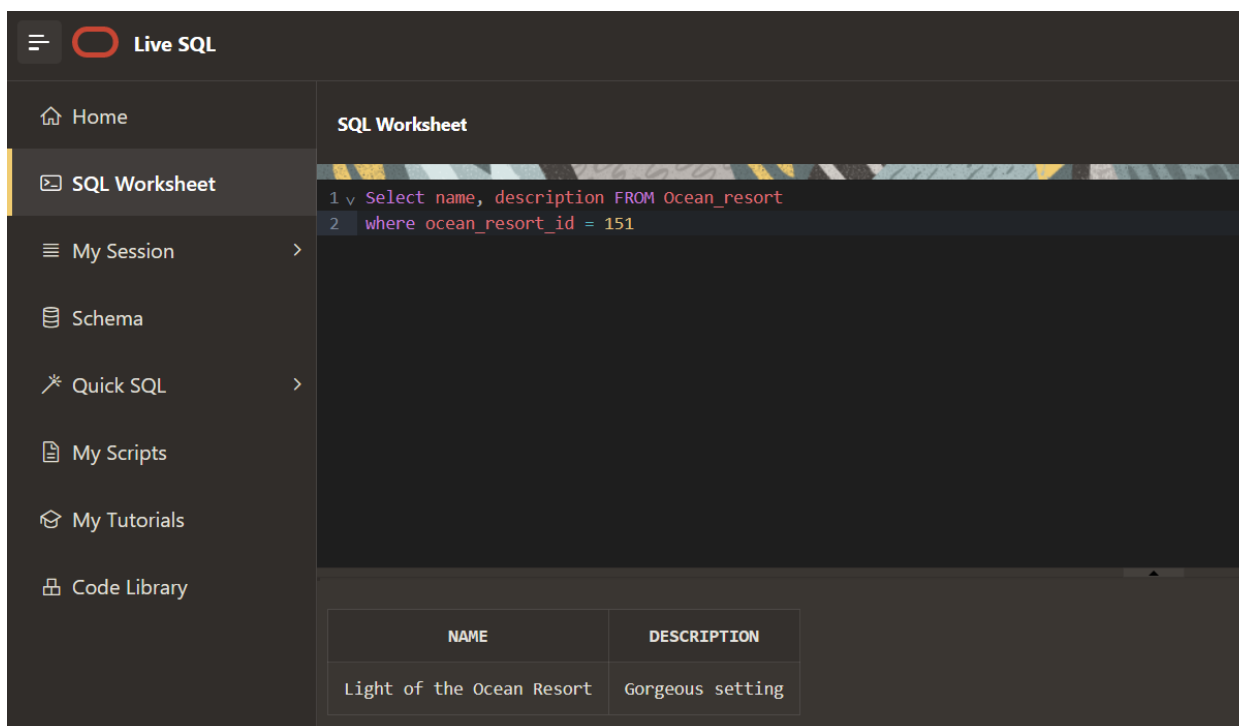


The screenshot shows the Live SQL interface. The left sidebar is the same as in the previous screenshot. The main area is titled "SQL Worksheet" and displays the query: `1 INSERT INTO Ocean_resort(ocean_resort_id, name, description, date_opened)`  
`2 VALUES(154, NULL, 'Experience The Neatherlands NO Other Way', CAST('03-Jan-1999' as DATE));`. Below the query, an error message is displayed: `ORA-01400: cannot insert NULL into ("SQL_DBVJFRKOOGMILLTPKAMTKRUVXG"."OCEAN_RESORT"."NAME") ORA-06512: at "SYS.DBMS_SQL", line 1721`. A link for more details is provided: <https://docs.oracle.com/error-help/db/ora-01400>.

### 36. EXPLANATION

The error message states that the name column of Ocean\_resort table can't be null because we defined NOT NULL when we created the table for the first time which means that the value must be provided to the column. Also, we can see the "SQL\_DBVJFRKOOGMLLTPKAMTKRUVXG"."OCEAN\_RESORT"."NAME" which is just drilling down into the table to refer to the column. Here the random character is a schema name, OCEAN\_RESORT is a table name and NAME is a column name.

### 37. SELECT (Screen Shot)



The screenshot shows the 'Live SQL' interface. On the left is a sidebar with navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a SQL query:

```
1 v Select name, description FROM Ocean_resort
2 where ocean_resort_id = 151
```

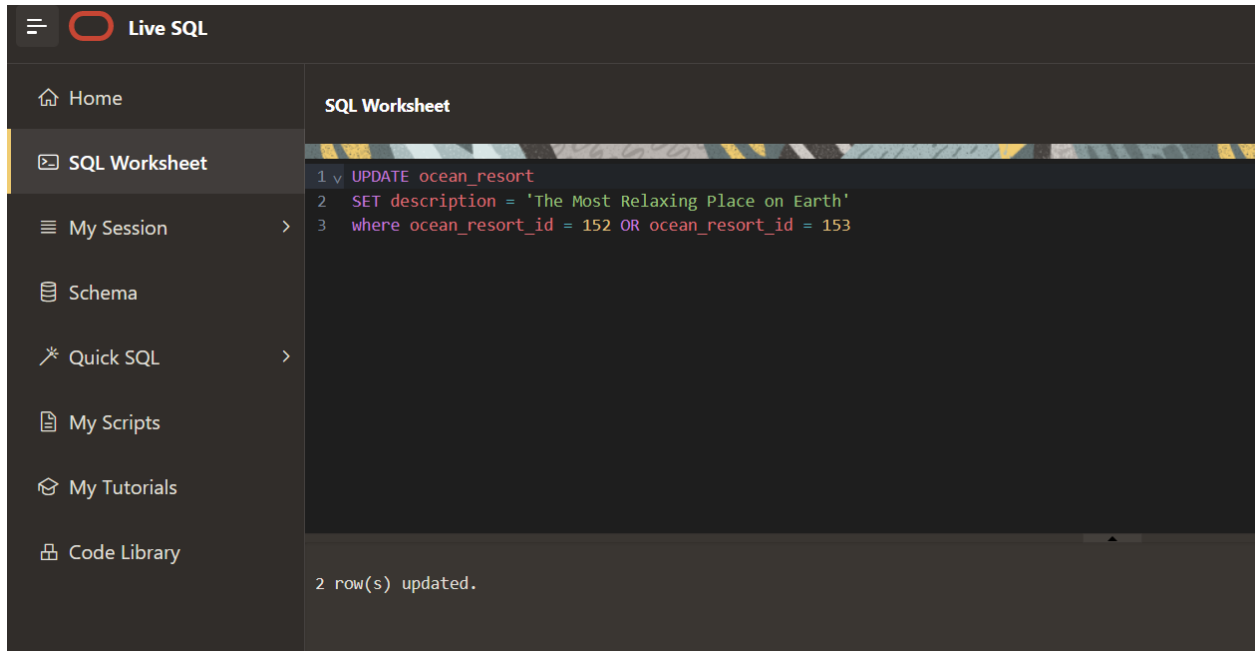
Below the query, the results are displayed in a table:

NAME	DESCRIPTION
Light of the Ocean Resort	Gorgeous setting

### 38. EXPLANATION

In some cases, the whole value of the record is not required in the given instance. If all the value is fetched when we require a limited number of rows and columns then it will be costly in terms of time and memory. To sum up, it is appropriate if we just fetch the required data by running a particular SQL queries like in exercise 38.

### 39. UPDATE (Screen Shot)

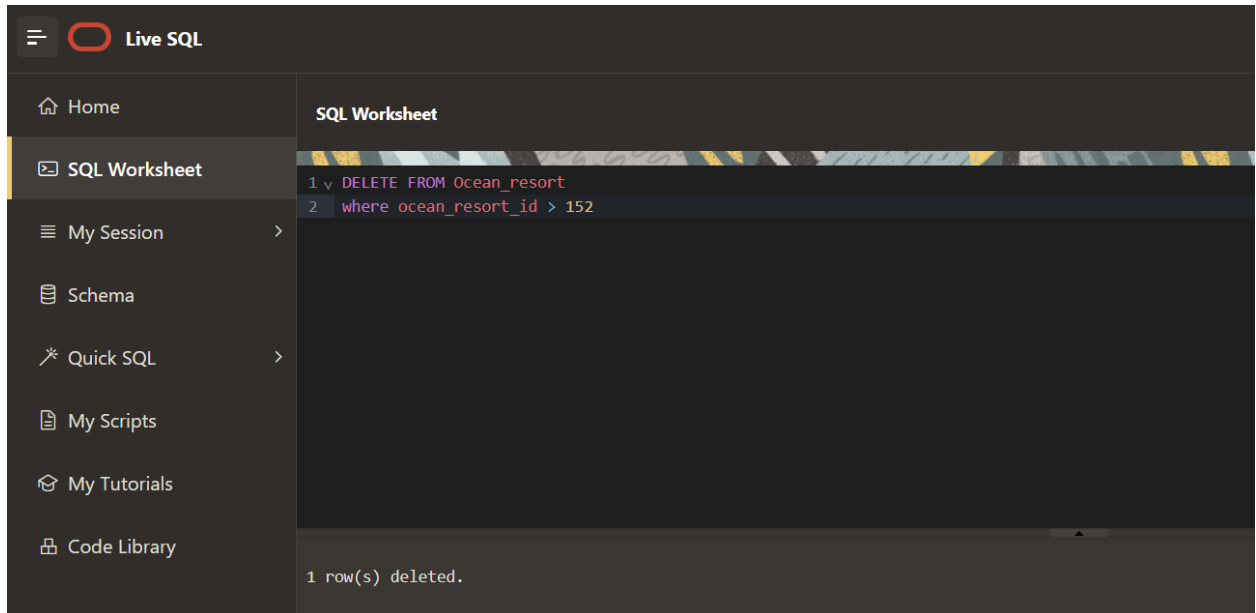


The screenshot shows a web-based SQL editor interface titled "Live SQL". On the left is a sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled "SQL Worksheet" and contains the following SQL query:

```
1 UPDATE ocean_resort
2 SET description = 'The Most Relaxing Place on Earth'
3 where ocean_resort_id = 152 OR ocean_resort_id = 153
```

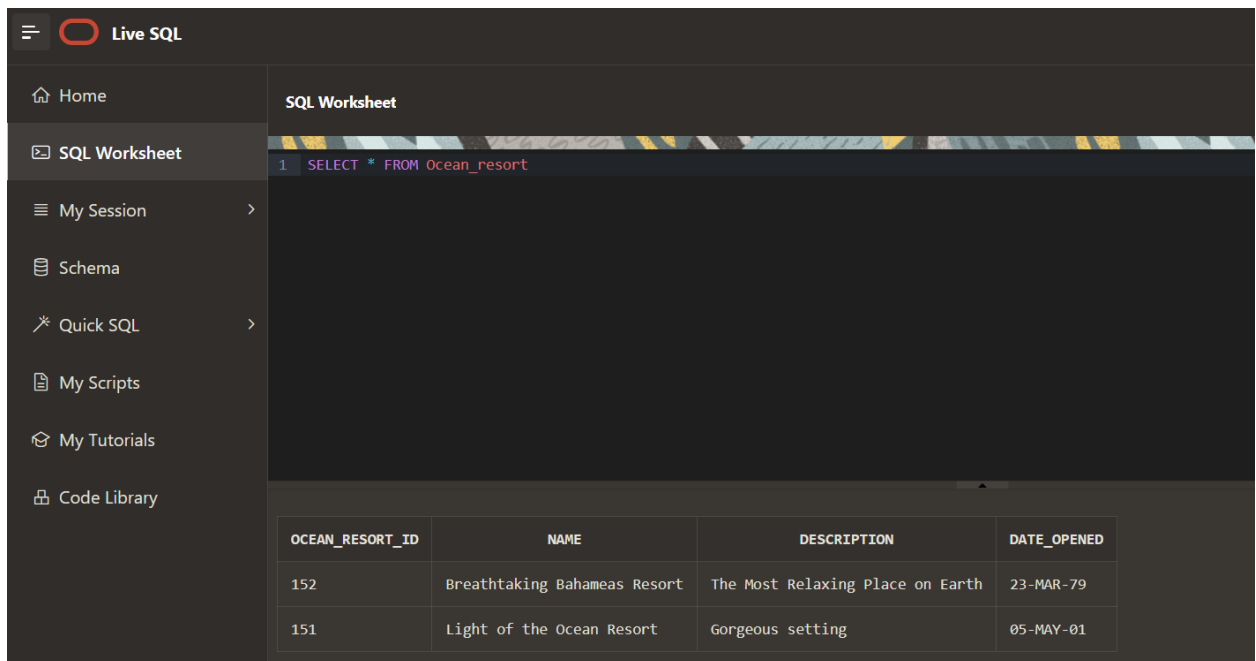
Below the query, the execution result is displayed: "2 row(s) updated."

#### 40. DELETE (Screen Shot)



The screenshot shows the 'Live SQL' application interface. On the left is a sidebar with navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains two lines of SQL code: `1 DELETE FROM Ocean_resort` and `2 where ocean_resort_id > 152`. Below the code editor, a status bar indicates '1 row(s) deleted.'

#### 41. SELECT (Screen Shot)



The screenshot shows the 'Live SQL' application interface. The sidebar is the same as in the previous screenshot. The main area is titled 'SQL Worksheet' and contains one line of SQL code: `1 SELECT * FROM Ocean_resort`. Below the code editor, a table displays the results of the query.

OCEAN_RESORT_ID	NAME	DESCRIPTION	DATE_OPENED
152	Breathtaking Bahameas Resort	The Most Relaxing Place on Earth	23-MAR-79
151	Light of the Ocean Resort	Gorgeous setting	05-MAY-01