Hands on Assignment#6

To perform the following assignments, refer to the tables created in the JLDB_Build_5.sql script at the beginning of the chapter.

1. Add a new row in the ORDERS table with the following data: Order# = 1021, Customer# = 1009, and Order date = July 20, 2009.
   Answer.
   Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1021', '1009', '20-Jul-2009');

```
/*Name - Ankur Prajapati          Assignment#-6        Question Number: 01 */
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1021', '1009', '20-Jul-2009');
```

Query Result ×

SQL | All Rows Fetched: 22 in 1.203 seconds

	ORDER#	CUSTOMER#	ORDERDATE	SHIPDATE	SHIPSTREET	SHIPCITY	SHIPSTATE	SHIPZIP	SHIPCOST
5	1004	1020 01-04-09	05-04-09	561 ROUNDABOUT WAY	TRENTON	NJ	08601	(null)
6	1005	1018 01-04-09	02-04-09	1008 GRAND AVENUE	MACON	GA	31206	2
7	1006	1003 01-04-09	02-04-09	558A CAPITOL HWY.	TALLAHASSEE	FL	32307	2
8	1007	1007 02-04-09	04-04-09	9153 MAIN STREET	AUSTIN	TX	78710	7
9	1008	1004 02-04-09	03-04-09	69821 SOUTH AVENUE	BOISE	ID	83707	3
10	1009	1005 03-04-09	05-04-09	9 LIGHTENING RD.	SEATTLE	WA	98110	(null)
11	1010	1019 03-04-09	04-04-09	384 WRONG WAY HOME	MORRISTOWN	NJ	07960	2
12	1011	1010 03-04-09	05-04-09	102 WEST LAFAYETTE	ATLANTA	GA	30311	2
13	1012	1017 03-04-09	(null)	1295 WINDY AVENUE	KALMAZOO	MI	49002	6
14	1013	1014 03-04-09	04-04-09	7618 MOUNTAIN RD.	CODY	WY	82414	2
15	1014	1007 04-04-09	05-04-09	9153 MAIN STREET	AUSTIN	TX	78710	3
16	1015	1020 04-04-09	(null)	557 GLITTER ST.	TRENTON	NJ	08606	2
17	1016	1003 04-04-09	(null)	9901 SEMINOLE WAY	TALLAHASSEE	FL	32307	2
18	1017	1015 04-04-09	05-04-09	887 HOT ASPHALT ST	MIAMI	FL	33222	3
19	1018	1001 05-04-09	(null)	95812 HIGHWAY 98	EASTPOINT	FL	32328	(null)
20	1019	1018 05-04-09	(null)	1008 GRAND AVENUE	MACON	GA	31206	2
21	1020	1008 05-04-09	(null)	195 JAMISON LANE	CHEYENNE	WY	82003	2
22	1021	1009 20-07-09	(null)	(null)	(null)	(null)	(null)	(null)

2. Modify the zip code on order 1017 to 33222.
   Answer.
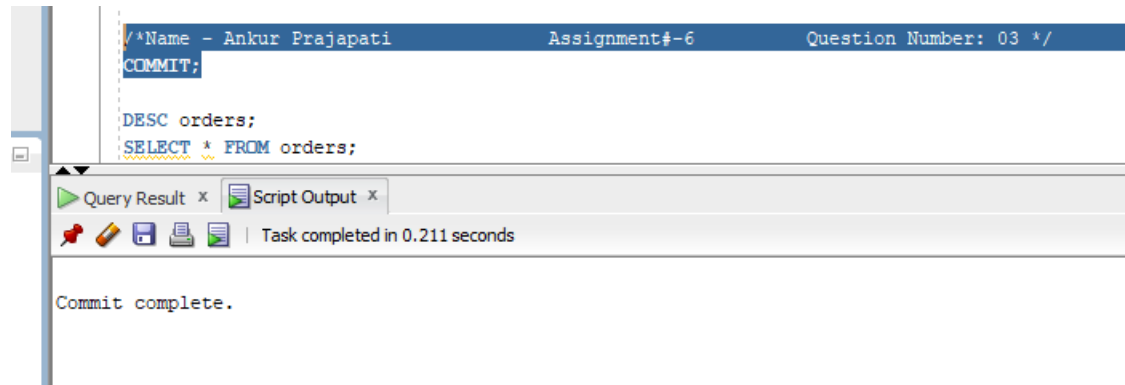   **Update Orders SET SHIPZIP = 33222 WHERE ORDER# = 1017;**

```
/*Name - Ankur Prajapati          Assignment#-6        Question Number: 02 */
Update Orders SET SHIPZIP = 33222 WHERE ORDER# = 1017;
```

Query Result ×

SQL | All Rows Fetched: 22 in 1.203 seconds

	ORDER#	CUSTOMER#	ORDERDATE	SHIPDATE	SHIPSTREET	SHIPCITY	SHIPSTATE	SHIPZIP	SHIPCOST
5	1004	1020 01-04-09	05-04-09	561 ROUNDABOUT WAY	TRENTON	NJ	08601	(null)
6	1005	1018 01-04-09	02-04-09	1008 GRAND AVENUE	MACON	GA	31206	2
7	1006	1003 01-04-09	02-04-09	558A CAPITOL HWY.	TALLAHASSEE	FL	32307	2
8	1007	1007 02-04-09	04-04-09	9153 MAIN STREET	AUSTIN	TX	78710	7
9	1008	1004 02-04-09	03-04-09	69821 SOUTH AVENUE	BOISE	ID	83707	3
10	1009	1005 03-04-09	05-04-09	9 LIGHTENING RD.	SEATTLE	WA	98110	(null)
11	1010	1019 03-04-09	04-04-09	384 WRONG WAY HOME	MORRISTOWN	NJ	07960	2
12	1011	1010 03-04-09	05-04-09	102 WEST LAFAYETTE	ATLANTA	GA	30311	2
13	1012	1017 03-04-09	(null)	1295 WINDY AVENUE	KALMAZOO	MI	49002	6
14	1013	1014 03-04-09	04-04-09	7618 MOUNTAIN RD.	CODY	WY	82414	2
15	1014	1007 04-04-09	05-04-09	9153 MAIN STREET	AUSTIN	TX	78710	3
16	1015	1020 04-04-09	(null)	557 GLITTER ST.	TRENTON	NJ	08606	2
17	1016	1003 04-04-09	(null)	9901 SEMINOLE WAY	TALLAHASSEE	FL	32307	2
18	1017	1015 04-04-09	05-04-09	887 HOT ASPHALT ST	MIAMI	FL	33222	3
19	1018	1001 05-04-09	(null)	95812 HIGHWAY 98	EASTPOINT	FL	32328	(null)
20	1019	1018 05-04-09	(null)	1008 GRAND AVENUE	MACON	GA	31206	2

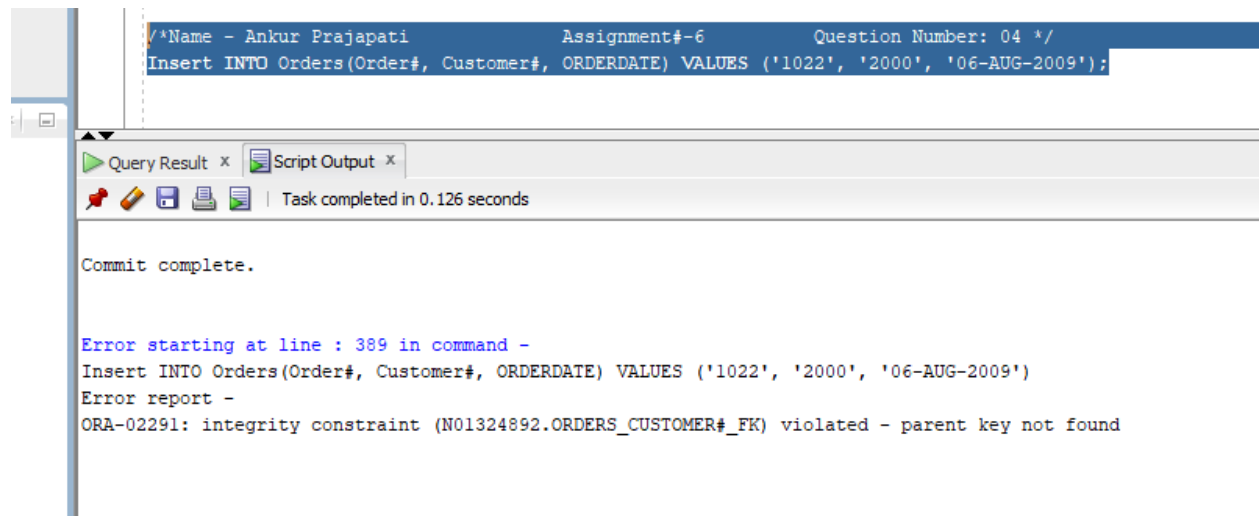3. Save the changes permanently to the database.
   Answer.
   COMMIT;

```
/*Name - Ankur Prajapati          Assignment#-6          Question Number: 03 */
COMMIT;

DESC orders;
SELECT * FROM orders;
```

Query Result × | Script Output ×

Task completed in 0.211 seconds

```
Commit complete.
```

4. Add a new row in the ORDERS table with the following data: Order# = 1022, Customer# = 2000, and Order date = August 6, 2009. Describe the error raised and what caused the error.
   Answer.
   Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009'); GIVES AN ERROR.

```
/*Name - Ankur Prajapati          Assignment#-6          Question Number: 04 */
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009');
```

Query Result × | Script Output ×

Task completed in 0.126 seconds

```
Commit complete.


Error starting at line : 389 in command -
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009')
Error report -
ORA-02291: integrity constraint (N01324892.ORDERS_CUSTOMER#_FK) violated - parent key not found
```

Error Report:
ORA-02291: integrity constraint (N01324892.ORDERS_CUSTOMER#_FK) violated - parent key not found
Error raised because our Foreign key value has no matching primary key value. To add this new raw we have to add matching key for this foreign key or we should delete the foreign key.

5. Add a new row in the ORDERS table with the following data: Order# = 1023 and Customer# = 1009. Describe the error raised and what caused the error.
   Answer.
   INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009'); GIVES AN ERROR.

```
/*Name - Ankur Prajapati          Assignment#-6          Question Number: 05 */
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009');

UPDATE books SET cost = '&cost' WHERE ISBN = '&ISBN';
```

Query Result × | Script Output ×

📌 ✏ 💾 🖨 📑 | Task completed in 0.171 seconds

```
Commit complete.


Error starting at line : 389 in command -
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009')
Error report -
ORA-02291: integrity constraint (N01324892.ORDERS_CUSTOMER#_FK) violated - parent key not found


Error starting at line : 391 in command -
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009')
Error report -
ORA-01400: cannot insert NULL into ("N01324892"."ORDERS"."ORDERDATE")
```

Error Report:
ORA-01400: cannot insert NULL into ("N01324892"."ORDERS"."ORDERDATE")

Error Raised because we are trying to insert NULL into already listed objects. These objects can not accepts NULL values. We must have define orderdate column as NOT NULL. If we define a particular column NOT NULL then we have to put some value in each time we add a line.

6. Create a script using substitution variables that allows a user to set a new cost amount for a book based on the ISBN.
    Answer.
    UPDATE books SET cost = '&cost' WHERE ISBN = '&ISBN';

```
/*Name - Ankur Prajapati          Assignment#-6          Question Number: 06 */
UPDATE books SET cost = '&cost' WHERE ISBN = '&ISBN';

Rollback;
```

Query Result × | Script Output ×

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```
Commit complete.
```

                    Enter Substitution Variable   ✕

```
Error starting at line : 389 in
Insert INTO Orders(Order#, Custo      Enter value for cost:          ', '06-AUG-2009')
Error report -                    ┌─────────────────┐
ORA-02291: integrity constraint   │                 │      ed - parent key not four
                                  └─────────────────┘
                                          OK        Cancel


Error starting at line : 391 in command -
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009')
Error report -
ORA-01400: cannot insert NULL into ("N01324892"."ORDERS"."ORDERDATE")
```
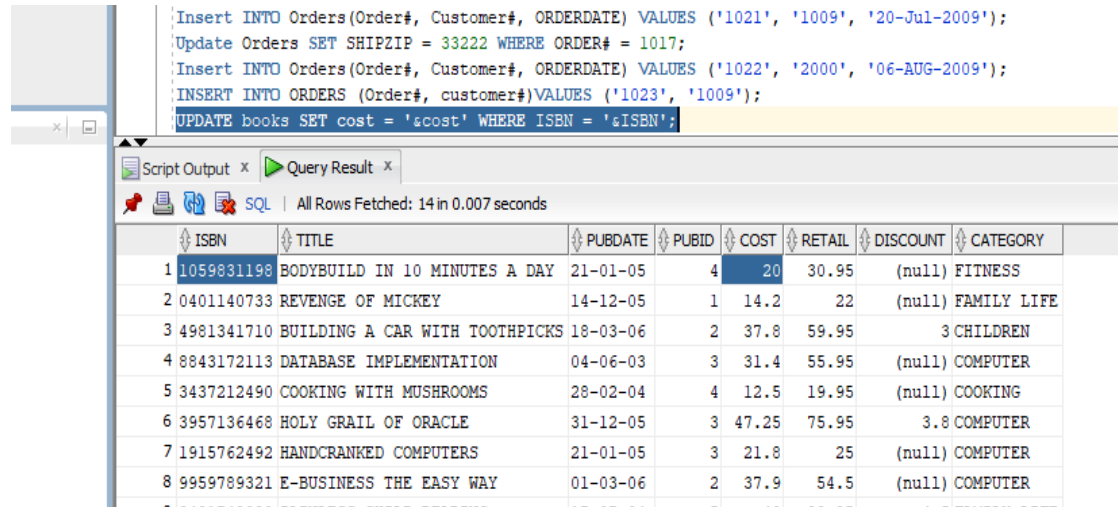
Note: It will prompt a window to add cost followed by ISBN number of book.

7. Execute the script and set the following values: isbn = 1059831198 and cost = $20.00.
   Answer.
   UPDATE books SET cost = '&cost' WHERE ISBN = '&ISBN';
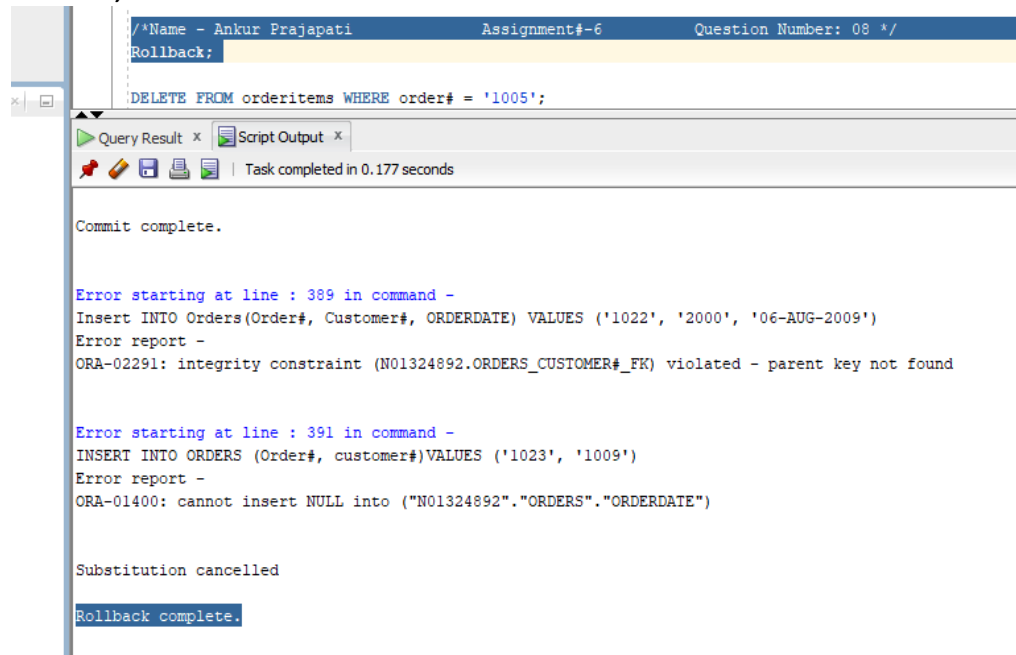   Insert isbn = 1059831198 and cost = $20.00.

```
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1021', '1009', '20-Jul-2009');
Update Orders SET SHIPZIP = 33222 WHERE ORDER# = 1017;
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009');
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009');
UPDATE books SET cost = '&cost' WHERE ISBN = '&ISBN';
```

Script Output × ▶ Query Result ×

📌 🖨 🔍 ❌ SQL | All Rows Fetched: 14 in 0.007 seconds

	ISBN	TITLE	PUBDATE	PUBID	COST	RETAIL	DISCOUNT	CATEGORY
1	1059831198	BODYBUILD IN 10 MINUTES A DAY	21-01-05	4	20	30.95	(null)	FITNESS
2	0401140733	REVENGE OF MICKEY	14-12-05	1	14.2	22	(null)	FAMILY LIFE
3	4981341710	BUILDING A CAR WITH TOOTHPICKS	18-03-06	2	37.8	59.95	3	CHILDREN
4	8843172113	DATABASE IMPLEMENTATION	04-06-03	3	31.4	55.95	(null)	COMPUTER
5	3437212490	COOKING WITH MUSHROOMS	28-02-04	4	12.5	19.95	(null)	COOKING
6	3957136468	HOLY GRAIL OF ORACLE	31-12-05	3	47.25	75.95	3.8	COMPUTER
7	1915762492	HANDCRANKED COMPUTERS	21-01-05	3	21.8	25	(null)	COMPUTER
8	9959789321	E-BUSINESS THE EASY WAY	01-03-06	2	37.9	54.5	(null)	COMPUTER

8. Execute a command that undoes the change in Step 7.
   Answer.
   Rollback;

```
/*Name - Ankur Prajapati          Assignment#-6        Question Number: 08 */
Rollback;

DELETE FROM orderitems WHERE order# = '1005';
```

▶ Query Result × Script Output ×

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```
Commit complete.


Error starting at line : 389 in command -
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009')
Error report -
ORA-02291: integrity constraint (N01324892.ORDERS_CUSTOMER#_FK) violated - parent key not found


Error starting at line : 391 in command -
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009')
Error report -
ORA-01400: cannot insert NULL into ("N01324892"."ORDERS"."ORDERDATE")


Substitution cancelled

Rollback complete.
```

9. Delete Order# 1005. You need to address both the master order record and the related detail records.
   Answer.
   DELETE FROM orderitems WHERE order# = '1005';

   DELETE FROM orders WHERE order# = '1005';

```
Rollback;

/*Name - Ankur Prajapati          Assignment#-6          Question Number: 09 */
DELETE FROM orderitems WHERE order# = '1005';
DELETE FROM orders WHERE order# = '1005';
```

Query Result ✕ | Script Output ✕

Task completed in 1.602 seconds

```
Insert INTO Orders(Order#, Customer#, ORDERDATE) VALUES ('1022', '2000', '06-AUG-2009')
Error report -
ORA-02291: integrity constraint (N01324892.ORDERS_CUSTOMER#_FK) violated - parent key not found


Error starting at line : 391 in command -
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009')
Error report -
ORA-01400: cannot insert NULL into ("N01324892"."ORDERS"."ORDERDATE")


Substitution cancelled

Rollback complete.


1 row deleted.


1 row deleted.
```

10. Execute a command that undoes the previous deletion.
    Answer.

    Rollback;

```
/*Name - Ankur Prajapati          Assignment#-6          Question Number: 10 */
Rollback;
```

Query Result ✕ | Script Output ✕

Task completed in 0.149 seconds

```
Error starting at line : 391 in command -
INSERT INTO ORDERS (Order#, customer#)VALUES ('1023', '1009')
Error report -
ORA-01400: cannot insert NULL into ("N01324892"."ORDERS"."ORDERDATE")


Substitution cancelled

Rollback complete.


1 row deleted.


1 row deleted.


Rollback complete.
```