Lab Exercise 9: Manipulating Data

Consider you will have this following table in your database:

WALLET (WALLET_ID, WALLET_NAME, WALLET_PRICE, WALLET_MATERIAL, WALLET_COLOUR)
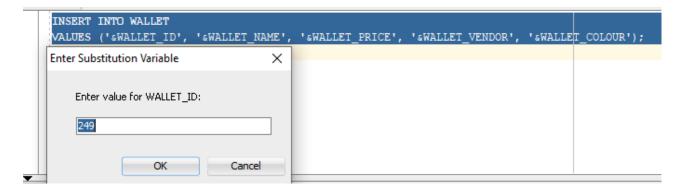
1. Consider this following data to be inserted into WALLET table:

WALLET_ID	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
246	Mystic	500	Fossils	Red
247	Turbo	200	Coaches	Violet
248	Chill	700	LVV	Orange
249	Profess	550	Handyglove	Green

   a) Insert the first row of data without specifying the columns in the INSERT clause

	WALLET_ID	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
1	246	Mystic	500	Fossils	Red

```
INSERT INTO WALLET
VALUES (246,'Mystic',500, 'Fossils','Red');
```

   b) Insert the second row of data and explicitly specify the columns in the INSERT clause

```
INSERT INTO WALLET (WALLET_ID, WALLET_NAME , WALLET PRICE , WALLET_VENDOR, WALLET_COLOUR)
VALUES (247,'Turbo',200, 'Coaches','Violet');
```

	WALLET_ID	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
1	246	Mystic	500	Fossils	Red
2	247	Turbo	200	Coaches	Violet

2. Modify your SQL in 1(a) and prompt the user to give an input for data to be inserted in WALLET table.

```
INSERT INTO WALLET
VALUES ('&WALLET_ID', '&WALLET_NAME', '&WALLET_PRICE', '&WALLET_VENDOR', '&WALLET_COLOUR');
```

Enter Substitution Variable ✕

Enter value for WALLET_ID:

249

OK   Cancel

3. Make the changes of your SQL in 2 permanents.

```
COMMIT;
```

4. Change the name for Turbo to become slow.

	WALLET_ID	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
1	246	Mystic	500	Fossils	Red
2	247	slow	200	Coaches	Violet
3	248	Chill	700	LVV	Orange
4	249	Profess	550	Handyglove	Green

```sql
select *
from wallet
for update;

update wallet
set wallet_name = 'slow'
where wallet_name = 'Turbo';

commit;
```

5. Change the colour to Green for all the models in Red colour.

```sql
select *
from wallet
for update;

update wallet
set wallet_colour = 'Green'
where wallet_colour = 'Red';

commit;
```

	WALL...	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
1	246	Mystic	500	Fossils	Green
2	247	slow	200	Coaches	Violet

6. Delete Profess from the database.

```sql
select *
from wallet
for update;

delete from wallet
where wallet_name = 'Profess';

commit;
```

	WALLET_ID	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
1	246	Mystic	500	Fossils	Green
2	247	slow	200	Coaches	Violet
3	248	Chill	700	LVV	Orange

7. Without using commit, save the changes you've made in 6.

```
savepoint sp11;

select *
from wallet
where wallet_name = 'Profess'
for update;

savepoint sp2;
delete from wallet
where wallet_name = 'Profess'

savepoint sp3;

select *
from wallet
where wallet_name = 'Profess';
```

8. Delete all the rows from WALLET table.

```
delete from wallet
```

WALLET_ID	WALLET_...	WALLET_...	WALLET_...	WALLET_...

9. Retrieve back the data that you have deleted in 8.

```
rollback
```

	WALLET_ID	WALLET_NAME	WALLET_PRICE	WALLET_VENDOR	WALLET_COLOUR
1	246	Mystic	500	Fossils	Green
2	247	slow	200	Coaches	Violet
3	248	Chill	700	LVV	Orange

10. Make the changes permanent.

```
COMMIT;
```