**Section 14.1**

**Blake Raphael**

1. CREATE TABLE my\_emp\_n

(id NUMBER(4) NOT NULL,

last\_name VARCHAR2(25),

first\_name VARCHAR2(25),

userid VARCHAR2(25),

salary NUMBER(9,2))

1. 1. INSERT INTO my\_emp\_n

(id, last\_name, first\_name, userid, salary)

VALUES

(1, 'Patel', 'Ralph', 'rpatel', 895)

* 1. INSERT INTO my\_emp\_n

(id, last\_name, first\_name, userid, salary)

VALUES

(2, 'Dancs', 'Betty', 'bdancs', 860)

1. If a COMMIT is used here, all changes to the table will be saved “permanently” and allows all other readers on the database to see the two rows just inserted. The commit also unlocks the rows to be edited by other writers because by using it, I confirmed that all my edits were finished.
2. A ROLLBACK after the inserts would get rid of the rows and leave the empty table. None of the info I inserted into the table would be saved and it would clean the slate to allow me to restart my inserts or updates or other DML I am going to do. This is because the rollback will undo the changes to the last “image” of the data which was before I started the DML.
3. If a COMMIT then a ROLLBACK were used after problem 2, the commit would save all the inserts just made. The rollback wouldn’t do anything because nothing was updated after the commit, so the table would show the info just inserted and the rollback would show the most recent “image” of the data, which was right after I confirmed the COMMIT statement.
4. 1. INSERT INTO my\_emp\_n

(id, last\_name, first\_name, userid, salary)

VALUES

(3, 'Biri', 'Ben', 'bbiri', 1100)

* 1. INSERT INTO my\_emp\_n

(id, last\_name, first\_name, userid, salary)

VALUES

(4, 'Newman', 'Chad', 'cnewman', 750)

1. COMMIT
2. UPDATE my\_emp\_n

SET last\_name = 'Drexler'

WHERE id = 3

1. SAVEPOINT one
2. UPDATE my\_emp\_n

SET salary = 100

WHERE salary < 900

1. SELECT \*  
   FROM my\_emp\_n
2. ROLLBACK
3. DELETE FROM my\_emp\_n

WHERE last\_name = 'Dancs'

1. COMMIT
2. INSERT INTO my\_emp\_n

(id, last\_name, first\_name, userid, salary)

VALUES

(5, 'Ropeburn', 'Audrey', 'aropebur', 1500)

1. SAVEPOINT two
2. DELETE FROM my\_emp\_n

WHERE 1 = 1

1. SELECT \*  
   FROM my\_emp\_n
2. ROLLBACK TO SAVEPOINT two
3. SELECT \*  
   FROM my\_emp\_n  
   WHERE id = 5
4. COMMIT