

## LAB 4-1 SOLUTIONS

### Insert, update, delete and commit data.

Use the EMP and DEPT tables to complete the following exercises:

- 1 Insert yourself as a new employee into the EMP table.

```
SQL> INSERT INTO emp
  2  VALUES (1111, 'BUSH', 'ANALYST', 7839, SYSDATE, 5000, NULL, 10);

1 record created.
```

- 2 Commit the insert.

```
SQL> COMMIT;

Commit complete.
```

- 3 Insert another row into the EMP table prompting for the employee number, department number, hire date, and employee name.

```
SQL> INSERT INTO emp (EMPNO, DEPTNO, HIREDATE, ENAME)
  2  VALUES (&EMPNO, &DEPTNO, '&HIREDATE', '&ENAME');
Enter value for EMPNO: 7777
Enter value for DEPTNO: 10
Enter value for HIREDATE: 17-DEC-90
Enter value for ENAME: COOMBS

1 record created.
```

- 4 Create a savepoint named SP1.

```
SQL> SAVEPOINT SP1;

Savepoint created.
```

## Lab 4-1 Solutions—cont'd

- 5 Add a new department into the DEPT table with a department number of 99, location of *Maui*, and a department name of *Education*.

```
SQL> DESC dept
```

Name	NULL?	Type
DEPTNO	NOT NULL	NUMBER(2)
DNAME		CHAR(14)
LOC		CHAR(13)

```
SQL> INSERT INTO dept
  2  VALUES(99, 'EDUCATION', 'MAUI');

1 record created.
```

- 6 Rollback to savepoint SP1. Write a query to display all data from the DEPT table to verify the status of the your newly inserted data.

```
SQL> ROLLBACK TO SAVEPOINT sp1;

Rollback complete.
```

```
SQL> SELECT *
  2  FROM dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

## Lab 4-1 Solutions—cont'd

- 7 Commit the changes.

```
SQL> COMMIT;  
  
Commit complete.
```

- 8 Update your own employee data by giving yourself a \$1000 per month raise.

```
SQL> UPDATE emp  
2 SET sal = sal + 1000  
3 WHERE empno = 1111;  
  
1 record updated.
```

- 9 Delete yourself from the EMP table.

```
SQL> DELETE FROM emp  
2 WHERE empno = 1111;  
  
1 record deleted.
```

- 10 Commit the changes.

```
SQL> COMMIT;  
  
Commit complete.
```

## Lab 4-1 Solutions—cont'd

- 11 Re-create the view named EMP\_DEPTNO\_TEN, use the WITH CHECK OPTION, that includes the employee name, department number, and employee number from the EMP table. The only employees that will be visible through this view will be employees in department 10.

```
SQL> CREATE VIEW emp_deptno_ten(NAME, DNO, ENO)
  2  AS SELECT ename, deptno, empno
  3  FROM emp
  4  WHERE deptno= 10
  5  WITH CHECK OPTION;

View created.
```

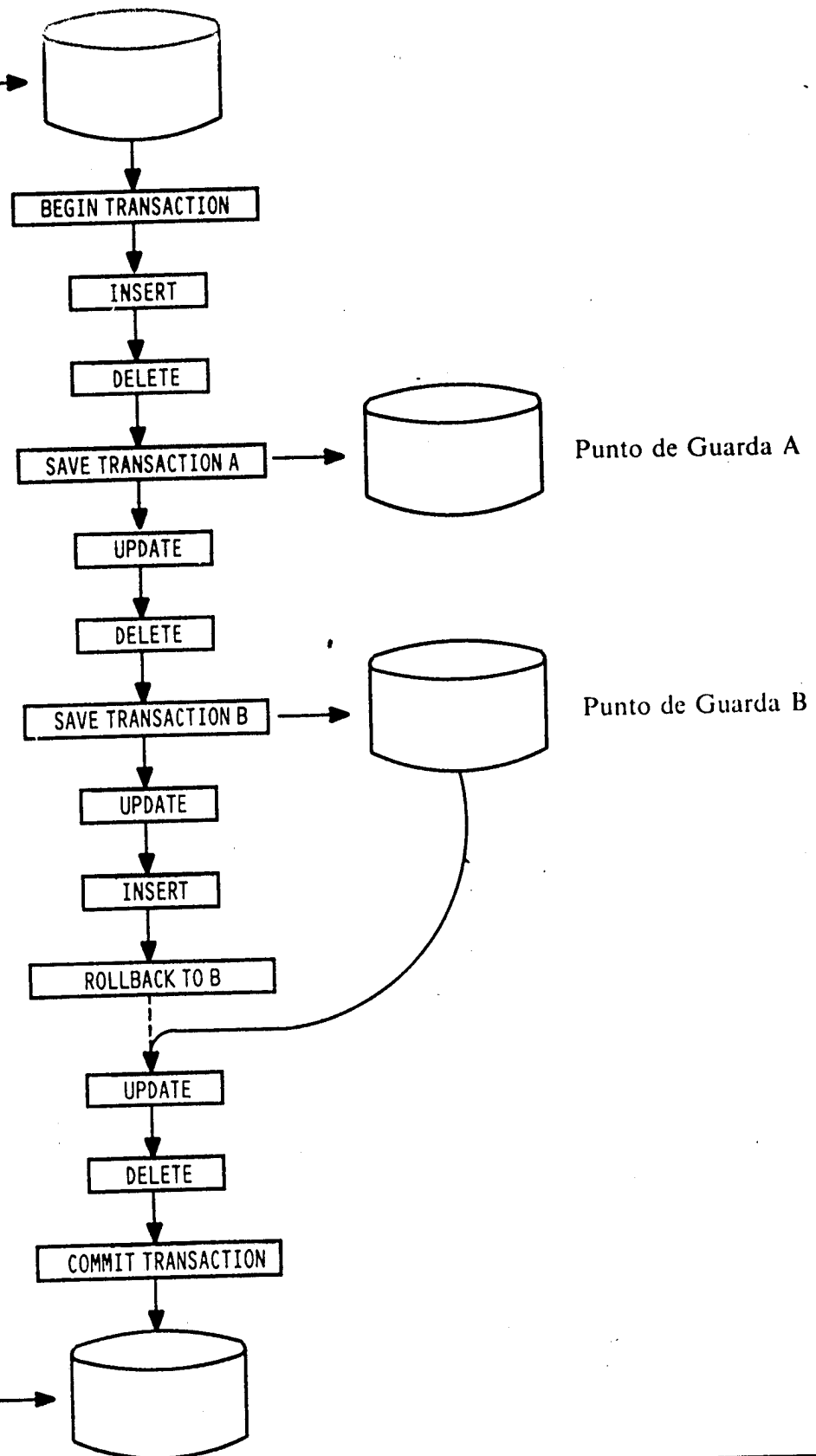
- 12 Update KING's department from 10 to 20 using the view EMP\_DEPTNO\_TEN.

```
SQL> UPDATE emp_deptno_ten
  2  SET dno = 20
  3  WHERE name = 'KING';
```

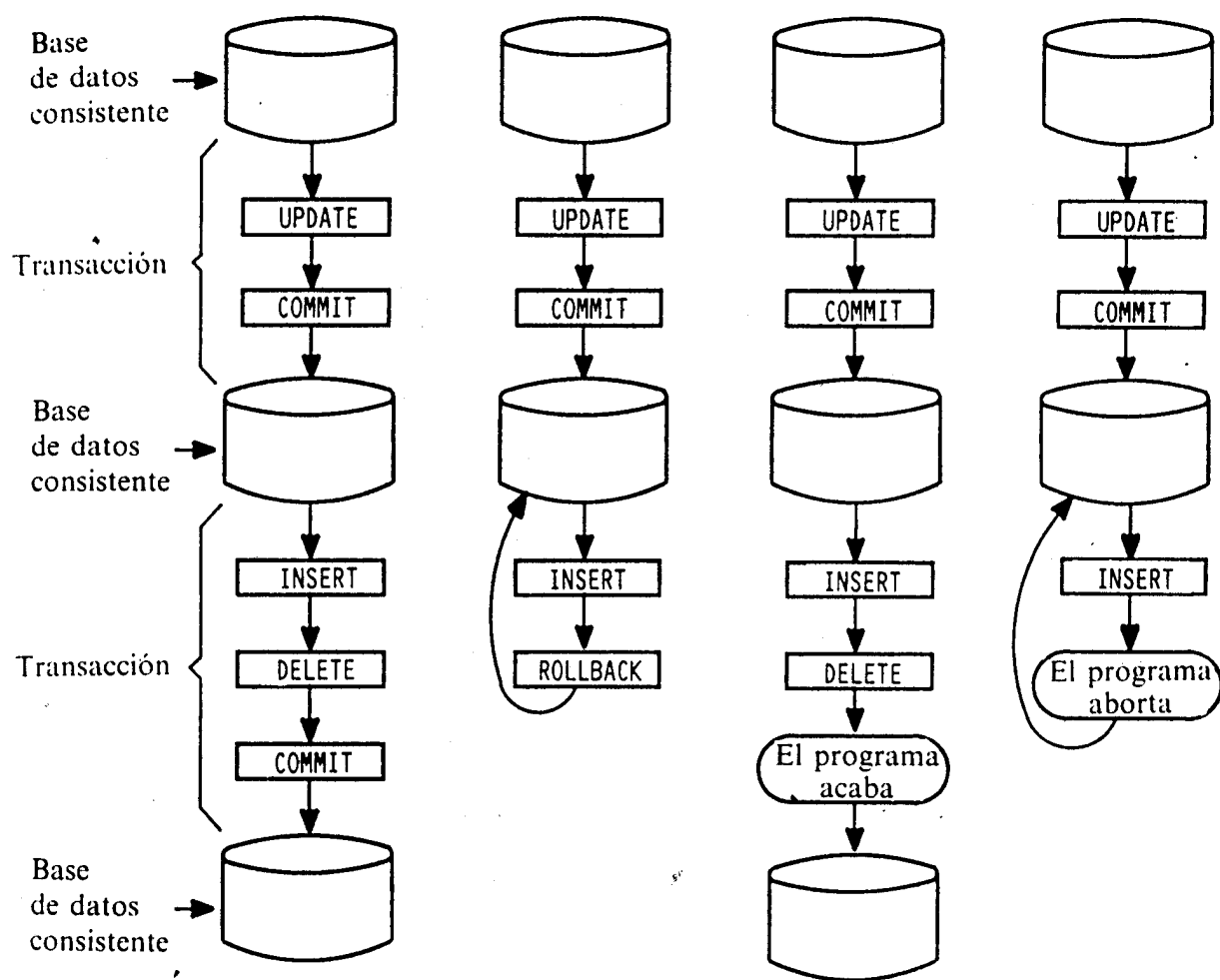
What happened?

```
ERROR at line 2:
ORA-01402: view WITH CHECK OPTION where-clause violation
```

Estado de la base  
de datos antes  
de la transacción



**Figura 12.4.** El modelo de transacción de Sybase.



**Figura 12.3.** Transacciones cumplimentadas COMMIT y vueltas atrás ROLLBACK.