

15-06-2024

Database Transactions

Statement	Description
COMMIT	Ends the current transaction by making all pending data changes permanent
SAVEPOINT <i>name</i>	Marks a savepoint within the current transaction
ROLLBACK	ROLLBACK ends the current transaction by discarding all pending data changes
ROLLBACK TO SAVEPOINT <i>name</i>	ROLLBACK TO SAVEPOINT rolls back the current transaction to the specified savepoint, thereby discarding any changes and or savepoints created after the savepoint to which you are rolling back. If you omit the TO SAVEPOINT clause, the ROLLBACK statement rolls back the entire transaction. As savepoints are logical, there is no way to list the savepoints you have created.

commit

1. DELETE FROM employees WHERE employee_id = 99999
2. Commit;
3. INSERT INTO departments VALUES (290, 'Corporate Tax', NULL, 1700);
4. Commit;

Rollback

- 5..DELETE FROM copy_emp;2
- 7..rollback;

Creating and Managing Tables

8.CREATE TABLE dept (deptno NUMBER(2),dname VARCHAR2(14), loc VARCHAR2(13));

Data Types

Data Type	Description
VARCHAR2 (<i>size</i>)	Variable-length character data
CHAR[(<i>size</i>)]	Fixed-length character data
NUMBER[(<i>p</i> , <i>s</i>)]	Variable-length numeric data
DATE	Date and time values
LONG	Variable-length character data up to 2 gigabytes
CLOB	Character data up to 4 gigabytes
RAW and LONG RAW	Raw binary data
BLOB	Binary data up to 4 gigabytes
BFILE	Binary data stored in an external file; up to 4 gigabytes
ROWID	Hexadecimal string representing the unique address of a row in its table

Creating a Table by Using a Subquery

9.CREATE TABLE dept80 AS SELECT employee_id, last_name, salary*12 ANNSAL, hire_date FROM employees WHERE department_id = 80;

The ALTER TABLE Statemen

Adding a Column

10.ALTER TABLE dept80 ADD (job_id VARCHAR2(9));

Modifying a Column

11 .ALTER TABLE dept80 MODIFY (last_name VARCHAR2(30));

Dropping a Column

12. ALTER TABLE dept80 DROP COLUMN job_id;

Dropping a Table

13. DROP TABLE dept80;

Changing the Name

14. RENAME dept TO detail_dept;

Truncating a Table

15. TRUNCATE TABLE detail_dept;