

The DROP TABLE statement removes an existing table with all its data from the database and moves it to the recycle bin

After dropping a table, we can restore it for a short time using the FLASHBACK TABLE statement. After dropping a table, all the objects related to that table will also be deleted or become invalid.

DROP TABLE employees copy4;

FLASHBACK TABLE employees copy4 TO BEFORE DROP;





- TRUNCATE TABLE Statement & The DELETE statement deletes all data row by row whereas the TRUNCATE statement deletes all rowfrom a table more quickly
- The TRUNCATE statement is one of the DDL (DataDefinition Language) statements so it willauto-commit changes immediately after removing data.
- TRUNCATE does not allow rollback.
- The data deleted using the TRUNCATE statement cannot easily be restored (FLASHBACK) becauseTRUNCATE does not generate any undo information or log data.
- The TRUNCATE statement works faster than the DELETE statement.



```
SELECT * FROM employees copy;
DELETE FROM employees copy;
TRUNCATE TABLE employees copy;
DROP TABLE employees copy;
CREATE TABLE employees test AS SELECT * FROM employees;
SELECT COUNT(*) FROM employees test;
DELETE FROM employees test;
TRUNCATE TABLE employees test;
DROP TABLE employees test;
                                   TRUNCATE+TABLE+Statement+(Code+Samples).sql
```



#### **RENAME Statement**

The RENAME statement is used to change the name of an existing column or table

We can change the name of a column.

We can change the name of a table.



```
DESC employees copy;
ALTER TABLE employees copy RENAME COLUMN hire date TO start date;
RENAME employees copy TO employees backup;
SELECT * FROM employees copy;
SELECT * FROM employees backup;
ALTER TABLE employees backup RENAME TO employees copy;
SELECT * FROM employees copy;
                                                     RENAME+Statement+(Code+Samples).sql
```



DML is used to add, update, and delete data.

A collection of DML statements is called a transaction.

A transaction starts with the first execution of a DML statement and finishes with a commit or rollback.



## **INSERT STATEMENT**

Use to insert row in table.





```
INSERT INTO jobs copy (job id, job title, min salary, max salary)
VALUES ('PR MGR', 'Project Manager', 7000, 18000);
INSERT INTO jobs copy (job title, min salary, job id, max salary)
VALUES ('Architect', 6500, 'ARCH', 15000);
INSERT INTO jobs copy
VALUES ('DATA ENG', 'Data Engineer', 8000, 21000);
INSERT INTO jobs copy (job id, job title, min salary)
VALUES ('DATA ARCH', 'Data Architecture', 8000);
ALTER TABLE jobs copy MODIFY max salary DEFAULT 10000;
INFO jobs;
INSERT INTO jobs copy (job id, job title, min salary)
VALUES ('DATA ARCH2', 'Data Architecture2', 8000);
INSERT INTO jobs copy (job id, min salary)
VALUES ('DATA ARCH2', 8000);
                                                  INSERT+Statement+(Part+1)+(Code+Samples)sql
```



```
INSERT INTO jobs_copy
VALUES ('DATA ARCH2', 'Data Architecture2', 8000);
INSERT INTO jobs copy
                                                                      INSERT+Statement+(Part+2)+(Code+Samples).sql
VALUES ('DATA ARCH3', 'Data Architecture3', 8000, NULL);
SELECT * FROM employees copy;
INSERT INTO employees copy SELECT * FROM employees;
INSERT INTO employees copy SELECT * FROM employees WHERE job id = 'IT PROG';
INSERT INTO employees copy(first name,last name,email,hire date,job id)
SELECT first_name,last_name,email,hire_date,job_id FROM employees WHERE job_id = 'IT_PROG';
```



### **UPDATE STATEMENT**

# Use to UPDATE row in table.



```
DROP TABLE employees copy;
CREATE TABLE employees copy AS SELECT * FROM employees;
SELECT * FROM employees copy;
UPDATE employees_copy
SET salary = 500;
SELECT * FROM employees copy WHERE job id = 'IT PROG';
UPDATE employees copy
SET salary = 50000
WHERE job id = 'IT PROG';
UPDATE employees_copy
SET salary = 5, department id = null
WHERE job id = 'IT PROG';
UPDATE employees copy
SET (salary, commission pct) = (SELECT max(salary), max(commission pct) FROM employees)
WHERE job id = 'IT PROG';
UPDATE employees_copy
SET
       salary = 100000
                                                                         UPDATE+Statement+(Code+Samples).sql
WHERE hire date = (SELECT MAX (hire date) FROM employees);
```



### **DELETE STATEMENT**

# Use to DELETE row from table.



```
SELECT * FROM employees_copy;

DELETE FROM employees_copy;

DELETE employees_copy;

DELETE employees_copy
WHERE job_id = 'IT_PROG';
DELETE-Statement+(Code+Samples).sql
```



## **Using+SELECT+Statements**

```
SELECT * FROM employees;

SELECT first_name, last_name, email FROM EMPLOYEES;

SELECT * FROM employees;

SELECT * FROM departments;

SQL+Statement+Basics(Code+Samples).sql
```



## Using Column Aliases

```
SELECT first_name, last_name, email FROM employees;
SELECT first_name AS name, last_name as surname, email FROM employees;
SELECT first_name AS "My Name", email "E-mail" FROM employees;
SELECT first_name AS "My Name", email "E-mail" FROM employees;
SELECT employee_id, salary + nvl(salary*commission_pct,0) + 1000 new_salary, salary FROM employees;
```



#### **DISTINCT and UNIQUE Operators**

```
SELECT first_name FROM employees;

SELECT distinct first_name FROM employees;

SELECT unique first_name FROM employees;

SELECT distinct job_id, distinct department_id FROM employees;

SELECT distinct job_id, department_id FROM employees;

SELECT distinct job_id FROM employees;

SELECT distinct job_id, department_id, first_name FROM employees;

SELECT distinct job_id, department_id, first_name FROM employees;

SELECT job_id, distinct department_id, first_name FROM employees;
```



#### **Concatenation Operators**

```
SELECT 'My Name is Alex' FROM employees;

SELECT 'My Name is ' || first_name FROM employees;

SELECT 'The commission percentage is ' || commission_pct AS concatenation,commission_pct FROM employees;

SELECT first_name || ' ' || last_name AS "full name" FROM employees;

SELECT * FROM employees;

SELECT * FROM locations;

SELECT street_address || ',' || city || ',' || postal_code || ',' || state_province || ',' || country_id AS "full address"

FROM locations;
```



#### **Arithmetic Opertors**

```
SELECT employee_id, salary, salary*12 as annual_salary FROM employees;

SELECT employee_id, salary, salary+100*12 as annual_salary FROM employees;

SELECT employee_id, salary, (salary+100)*12 as annual_salary FROM employees;

SELECT sysdate FROM dual;

SELECT sysdate + 4 FROM dual;

SELECT employee_id, hire_date, hire_date+5 FROM employees;

SELECT salary, salary*commission_pct, commission_pct FROM employees;
```



#### Using WHERE Clause

```
SELECT * FROM employees;
SELECT * FROM employees WHERE salary > 100000;
SELECT * FROM employees WHERE job_id = 'IT_PROG';
```