5-06-2024   SQL (Structure Query Language)

Definition of a Relational Database

A relational database uses relations or two-dimensional tables store information For example, you might want to store information about all the employees in your company. In a relational database, you create several tables to store different pieces of information about your employees, such as an employee table, a department table, and a salary table.

SQL Statements

Statement	Category
SELECT	Data retrieval
INSERT UPDATE DELETE MERGE	Data manipulation language (DML)
CREATE ALTER DROP RENAME TRUNCATE	Data definition language (DDL)
COMMIT ROLLBACK SAVEPOINT	Transaction control
GRANT REVOKE	Data control language (DCL)

Writing basic select statement

1 .Select * from Employee7.

2.Select * from deparment7.

3.Select location_id ,department_id from department7.

Using Arithmetic Expressinon

Create expressions with number and date data by using arithmetic operators.

Operator	Description
+	Add
-	Subtract
*	Multiply
/	Divide

4.select last_name,salary+3000 from employee7.

5. select last_name,salary-2000 from employee7.

6.select last_name,salary,12*salarty+100 from employee7.

Using parentheses

7.select last_name,salary,12*(salarty+100) from employee7.

Using column aliases

8.Select last_name as name ,salary from employee7.

9.Select last_name "name" ,salary"annual salary" from employee7.

Concatenation operator

10.select last_name ||job_id ||"is employee" from employee7

Eliminating duplicate row

11. Select distinct department_id from department7

Display table structure

12. Describe employee7.

13.Describe department7.