

REPORT: DE Training (29/10/2024)

DAY 2

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1. Storing Data in a Table
2. Updating Data in a Table
3. Deleting Data from a Table
4. Retrieving Specific Attributes
5. Retrieving Selected Rows
6. Filtering Data: WHERE Clauses
7. Filtering Data: IN, DISTINCT, AND, OR, IN, BETWEEN, LIKE, Column & table aliases

```
USE Temp;  
GO
```

```
CREATE table emp(  
    EMPNO INT PRIMARY KEY,  
    EMPNAME VARCHAR(50),  
    JOB VARCHAR(50),  
    MGR INT,  
    HIREDATE DATE,  
    SALARY DECIMAL(10,2),  
    DEPTINFO INT  
);
```

```
INSERT into emp(EMPNO, EMPNAME, JOB, MGR, HIREDATE, SALARY, DEPTINFO) VALUES  
    (7369, 'SMITH', 'CLERK', 7698, '1980-12-16', 100, 10),  
    (7499, 'ALLEN', 'SALESMAN', 7698, '1981-02-20', 200, 30),  
    (7521, 'WARD', 'SALESMAN', 7782, '1981-03-21', 300, 30),  
    (7566, 'JONES', 'MANAGER', NULL, '1981-06-30', 500, 40),  
    (7564, 'MARTIN', 'SALESMAN', 7782, '1981-08-31', 300, 30),  
    (7698, 'BLAKE', 'MANAGER', NULL, '1981-09-20', 700, 40),  
    (7782, 'CLARK', 'MANAGER', NULL, '1981-10-21', 700, 40),  
    (7788, 'SCOTT', 'ANALYST', 7839, '1981-06-03', 900, 20),  
    (7839, 'KING', 'PRESIDENT', NULL, '1981-03-04', 1000, 10),  
    (7844, 'TURNER', 'SALESMAN', 7698, '1981-07-06', 300, 30),  
    (7876, 'ADAMS', 'CLERK', 7782, '1981-04-01', 100, 10),  
    (7900, 'JAMES', 'CLERK', 7698, '1981-11-04', 200, 10),  
    (7902, 'FORD', 'ANALYST', 7839, '1981-12-31', 800, 20),  
    (7934, 'MILLER', 'CLERK', 7782, '1981-05-05', 400, 10);
```

```
SELECT * from emp
```

1) Storing Data in a Table

```
“ INSERT into emp(EMPNO, EMPNAME, JOB, MGR, HIREDATE, SALARY, DEPTINFO)
VALUES (7369, 'SMITH', 'CLERK', 7698, '1980-12-16', 100, 10) “
```

2) Updating Data in a Table

```
“ UPDATE emp SET SAL = 320 WHERE EMPNO = 7844;”
```

3) Deleting Data from a Table

```
“ DELETE FROM emp WHERE JOB = 'SALESMAN'; “
```

4) Retrieving Specific Attributes

```
“ SELECT EMPNAME, JOB FROM emp; “
```

5) Retrieving Selected Rows

```
“ SELECT * FROM emp WHERE DEPTNO = 10; “
```

6) Filtering Data: WHERE Clauses

```
“ SELECT * FROM emp WHERE SAL > 500; “
```

7) Filtering Data:IN

```
“ SELECT * FROM emp WHERE DEPTNO IN (10, 20, 30) ; “
```

- Using DISTINCT:

```
“ SELECT DISTINCT JOB FROM emp; “
```

- Using AND, OR:

```
“ SELECT * FROM emp WHERE JOB = 'CLERK' OR SAL > 800; “
```

- Using BETWEEN:

```
“ SELECT * FROM emp WHERE HIREDATE BETWEEN '1981-01-01' AND
'1981-12-31'; “
```

- Using LIKE:

```
“ SELECT * FROM emp WHERE EMPNAME LIKE 'S%'; “
```

- Using Column and Table Aliases:

```
“ SELECT e.EMPNAME AS EmployeeName, e.JOB AS JobRole, e.SAL AS Salary  
FROM emp AS e; “
```