

SQL – Sturctured Query Language

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1 CREATE TABLE DEPT
2 (DEPTNO NUMBER(2),
3  DNAME VARCHAR2(14),
4  LOC VARCHAR2(13) );
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6 INSERT INTO DEPT VALUES (10, 'ACCOUNTING', 'NEW YORK');
7 INSERT INTO DEPT VALUES (20, 'RESEARCH', 'DALLAS');
8 INSERT INTO DEPT VALUES (30, 'SALES', 'CHICAGO');
9 INSERT INTO DEPT VALUES (40, 'OPERATIONS', 'BOSTON');
10

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11 CREATE TABLE EMP
12 (EMPNO NUMBER(4) NOT NULL,
13  ENAME VARCHAR2(10),
14  JOB VARCHAR2(9),
15  MGR NUMBER(4),
16  HIREDATE DATE,
17  SAL NUMBER(7, 2),
18  COMM NUMBER(7, 2),
19  DEPTNO NUMBER(2));
20

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21 INSERT INTO EMP VALUES(7369, 'SMITH', 'CLERK', 7902,TO_DATE('17-DEC-1980', 'DD-MON-YYYY'), 800, NULL, 20);
22 INSERT INTO EMP VALUES(7499, 'ALLEN', 'SALESMAN', 7698, TO_DATE('20-FEB-1981', 'DD-MON-YYYY'), 1600, 300, 30);
23 INSERT INTO EMP VALUES(7521, 'WARD', 'SALESMAN', 7698, TO_DATE('22-FEB-1981', 'DD-MON-YYYY'), 1250, 500, 30);
24 INSERT INTO EMP VALUES(7566, 'JONES', 'MANAGER', 7839, TO_DATE('2-APR-1981', 'DD-MON-YYYY'), 2975, NULL, 20);
25 INSERT INTO EMP VALUES(7654, 'MARTIN', 'SALESMAN', 7698,TO_DATE('28-SEP-1981', 'DD-MON-YYYY'), 1250, 1400, 30);
26 INSERT INTO EMP VALUES(7698, 'BLAKE', 'MANAGER', 7839,TO_DATE('1-MAY-1981', 'DD-MON-YYYY'), 2850, NULL, 30);
27 INSERT INTO EMP VALUES(7782, 'CLARK', 'MANAGER', 7839,TO_DATE('9-JUN-1981', 'DD-MON-YYYY'), 2450, NULL, 10);
28 INSERT INTO EMP VALUES(7788, 'SCOTT', 'ANALYST', 7566, TO_DATE('09-DEC-1982', 'DD-MON-YYYY'), 3000, NULL, 20);
29 INSERT INTO EMP VALUES(7839, 'KING', 'PRESIDENT', NULL,TO_DATE('17-NOV-1981', 'DD-MON-YYYY'), 5000, NULL, 10);
30 INSERT INTO EMP VALUES(7844, 'TURNER', 'SALESMAN', 7698, TO_DATE('8-SEP-1981', 'DD-MON-YYYY'), 1500, 0, 30);
31 INSERT INTO EMP VALUES(7876, 'ADAMS', 'CLERK', 7788, TO_DATE('12-JAN-1983', 'DD-MON-YYYY'), 1100, NULL, 20);
32 INSERT INTO EMP VALUES(7900, 'JAMES', 'CLERK', 7698, TO_DATE('3-DEC-1981', 'DD-MON-YYYY'), 950, NULL, 30);
33 INSERT INTO EMP VALUES(7902, 'FORD', 'ANALYST', 7566,TO_DATE('3-DEC-1981', 'DD-MON-YYYY'), 3000, NULL, 20);
34 INSERT INTO EMP VALUES(7934, 'MILLER', 'CLERK', 7782,TO_DATE('23-JAN-1982', 'DD-MON-YYYY'), 1300, NULL, 10);
35

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36 CREATE TABLE SALGRADE
37 (GRADE NUMBER,
38  LOSAL NUMBER,
39  HISAL NUMBER);
40

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41 INSERT INTO SALGRADE VALUES (1, 700, 1200);
42 INSERT INTO SALGRADE VALUES (2, 1201, 1400);
43 INSERT INTO SALGRADE VALUES (3, 1401, 2000);
44 INSERT INTO SALGRADE VALUES (4, 2001, 3000);
45 INSERT INTO SALGRADE VALUES (5, 3001, 9999);
46

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47 COMMIT;
48
49

```

SELECT * FROM DEPT;	SELECT * FROM SALGRADE;

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51 SELECT * FROM EMP;
52

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-Dec-80	800	NULL	20
7499	ALLEN	SALESMAN	7698	20-Feb-81	1600	300	30
7521	WARD	SALESMAN	7698	22-Feb-81	1250	500	30
7566	JONES	MANAGER	7839	02-Apr-81	2975	NULL	20
7654	MARTIN	SALESMAN	7698	28-Sep-81	1250	1400	30
7698	BLAKE	MANAGER	7839	01-May-81	2850	NULL	30
7782	CLARK	MANAGER	7839	09-Jun-81	2450	NULL	10
7788	SCOTT	ANALYST	7566	09-Dec-82	3000	NULL	20
7839	KING	PRESIDENT	NULL	17-Nov-81	5000	NULL	10
7844	TURNER	SALESMAN	7698	08-Sep-81	1500	0	30
7876	ADAMS	CLERK	7788	12-Jan-83	1100	NULL	20
7900	JAMES	CLERK	7698	03-Dec-81	950	NULL	30
7902	FORD	ANALYST	7566	03-Dec-81	3000	NULL	20
7934	MILLER	CLERK	7782	23-Jan-82	1300	NULL	10

53
54
55 SELECT COUNT(*), COUNT(1) FROM EMP;
56

57 UPDATE EMP SET SAL = SAL * 1.10;
58

59 DELETE FROM EMP WHERE EMPNO = 7566;
60

61 SELECT e.EMPNO as 'EMPLOYEE_ID', e.ENAME as 'EMPLOYEE_NAME', e.JOB as 'JOB', D.DEPTNO, D.DNAME as DEPT
62 FROM EMP e, DEPT d
63 WHERE _____
64 AND _____;
65
66
67
68
69
70

71 SELECT e1.EMPNO as 'Employee_Id', e1.ENAME as 'Employee', e2.EMPNO as 'Manager_Id', e2.ENAME as 'Manager'
72 FROM EMP e1, EMP e2
73 WHERE _____
74 AND _____;
75
76
77
78
79

80 CREATE VIEW EMP_V
81 AS
82 SELECT EMPNO, ENAME, JOB, DEPTNO FROM EMP
83 WHERE JOB NOT IN ('PRESIDENT', 'MANAGER');
84
85
86
87