

## CSE2007 (DBMS) Lab-2

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20BCD7138

```
CREATE TABLE EMPLOYEE (FIRST_NAME VARCHAR(15),
    MID_NAME CHAR(2),
    LAST_NAME VARCHAR(15),
    SSN_NUMBER CHAR(9),
    BIRTHDAY DATE,
    ADDRESS VARCHAR2(50),
    SEX CHAR(1),
    SALARY NUMBER(7),
    SUPERVISOR_SSN CHAR(9),
    DEPARTMENT_NUMBER NUMBER(5));
```

```
CREATE TABLE DEPARTMENT (
    DEPT_NAME VARCHAR2(15),
    DEPT_NO NUMBER(5),
    MANAGERSSN CHAR(9),
    MANAGESTARTDATE DATE);
```

```
CREATE TABLE PROJECT(
    PROJECTNAME VARCHAR2(15),
    PROJECTNUMBER NUMBER(5),
    PROJECTLOCATION VARCHAR2(15),
    DEPT_NO NUMBER(5));
```

```
INSERT INTO EMPLOYEE VALUES('Doug', 'E', 'Gilbert',
554433221, '09-JUN-60', '11 S 59 E, Salt Lake City, UT',
'M', 80000, NULL, 3);
INSERT INTO EMPLOYEE VALUES('Joyce', NULL, 'PAN',
543216789, '07-FEB-78', '35 S 18 E, Salt Lake City, UT',
'F', 70000, NULL, 2);
```

```

INSERT INTO EMPLOYEE VALUES('Frankin', 'T', 'Wong',
333445555, '08-DEC-45', '638 Voss, Houston, TX', 'M',
40000, 554433221, 5);
INSERT INTO EMPLOYEE VALUES('Jennifer', 'S', 'Wallace',
987654321, '20-JUN-31', '291 Berry, Bellaire, TX', 'F',
43000, 554433221, 4);
INSERT INTO EMPLOYEE VALUES('Johnny', 'B', 'Smith',
123456789, '09-JAN-55', '731 Fondren, Houston, TX', 'M',
30000, 333445555, 5);
INSERT INTO EMPLOYEE VALUES('Ramesh', 'K', 'Narayan',
666884444, '15-SEP-52', '975 Fire Oak, Humble, TX', 'M',
38000, 333445555, 5);
INSERT INTO EMPLOYEE VALUES('Joyce', 'A', 'English',
453453453, '31-JUL-62', '5631 Rice, Houston, TX', 'F',
25000, 333445555, 5);
INSERT INTO EMPLOYEE VALUES('James', 'E', 'Borg',
888665555, '10-NOV-27', '450 Stone, Houston, TX', 'M',
55000, 543216789, 1);
INSERT INTO EMPLOYEE VALUES('Alicia', 'J', 'Zelaya',
999887777, '19-JUL-58', '3321 Castle, Spring, TX', 'F',
25000, 987654321, 4);
INSERT INTO EMPLOYEE VALUES('Ahmad', 'V', 'Jabbar',
987987987, '29-MAR-59', '980 Dallas, Houston, TX', 'M',
25000, 987654321, 4);

```

```

INSERT INTO DEPARTMENT VALUES('Manufacture', 1, 888665555,
'19-JUN-71');
INSERT INTO DEPARTMENT VALUES('Administration', 2,
543216789, '04-JAN-99');
INSERT INTO DEPARTMENT VALUES('Headquarter', 3, 554433221,
'22-SEP-55');
INSERT INTO DEPARTMENT VALUES('Finance', 4, 987654321,
'01-JAN-85');
INSERT INTO DEPARTMENT VALUES('Research', 5, 333445555,
'22-MAY-78');

```

```
INSERT INTO PROJECT VALUES('ProjectA', 3388, 'Houston', 1
);
INSERT INTO PROJECT VALUES('ProjectB', 1945, 'Salt Lake
City', 3 );
INSERT INTO PROJECT VALUES('ProjectC', 6688, 'Houston', 5
);
INSERT INTO PROJECT VALUES('ProjectD', 2423, 'Bellaire',
4 );
INSERT INTO PROJECT VALUES('ProjectE', 7745, 'Sugarland',
5 );
INSERT INTO PROJECT VALUES('ProjectF', 1566, 'Salt Lake
City', 3 );
INSERT INTO PROJECT VALUES('ProjectG', 1234, 'New York',
2 );
INSERT INTO PROJECT VALUES('ProjectH', 3467, 'Stafford',
4 );
INSERT INTO PROJECT VALUES('ProjectI', 4345, 'Chicago', 1
);
INSERT INTO PROJECT VALUES('ProjectJ', 2212, 'San
Francisco', 2 );
```

```
SELECT * FROM EMPLOYEE WHERE DEPARTMENT_NUMBER=1;
```

```
SELECT FIRST_NAME, MID_NAME, LAST_NAME, SSN_NUMBER,
SUPERVISOR_SSN FROM EMPLOYEE;
```

```
SELECT FIRST_NAME, LAST_NAME, BIRTHDAY FROM EMPLOYEE WHERE
BIRTHDAY='29-MAR-1959';
```

```
SELECT DISTINCT SALARY, FIRST_NAME, LAST_NAME FROM EMPLOYEE;
```

```
SELECT MANAGERSSN, MANAGESTARTDATE FROM DEPARTMENT WHERE
DEPARTMENT_NAME='Research';
```

```
UPDATE EMPLOYEE SET DEPARTMENT_NUMBER=5 WHERE
FIRST_NAME='Joyce';
```

```
ALTER TABLE DEPARTMENT ADD CONTACT_NUMBER NUMBER(10);
UPDATE DEPARTMENT SET CONTACT_NUMBER=1234567890 WHERE
DEPT_NO=1;
UPDATE DEPARTMENT SET CONTACT_NUMBER=1234567890 WHERE
DEPT_NO=2;
UPDATE DEPARTMENT SET CONTACT_NUMBER=1234567890 WHERE
DEPT_NO=3;
UPDATE DEPARTMENT SET CONTACT_NUMBER=1234567890 WHERE
DEPT_NO=4;
UPDATE DEPARTMENT SET CONTACT_NUMBER=1234567890 WHERE
DEPT_NO=5;
```

```
ALTER TABLE DEPARTMENT MODIFY CONTACT_NUMBER NUMBER(11);
```

```
ALTER TABLE DEPARTMENT RENAME COLUMN CONTACT_NUMBER TO
MOBILENO
```

```
RENAME DEPARTMENT TO DEPT;
```

```
ALTER TABLE DEPARTMENT DROP COLUMN CONTACT_NO;
```

```

1 CREATE TABLE EMPLOYEE (FIRST_NAME
    VARCHAR(15),
2     MID_NAME CHAR(2),
3     LAST_NAME VARCHAR(15),
4     SSN_NUMBER CHAR(9),
5     BIRTHDAY DATE,
6     ADDRESS VARCHAR2(50),
7     SEX CHAR(1),
8     SALARY NUMBER(7),
9     SUPERVISOR_SSN CHAR(9),
10    DEPARTMENT_NUMBER NUMBER(5));
11
12 CREATE TABLE DEPARTMENT (
13     DEPT_NAME VARCHAR2(15),
14     DEPT_NO NUMBER(5),
15     MANAGERSSN CHAR(9),
16     MANAGESTARTDATE DATE);
17
18 CREATE TABLE PROJECT(
19     PROJECTNAME VARCHAR2(15),
20     PROJECTNUMBER NUMBER(5),
21     PROJECTLOCATION VARCHAR2(15),
22     DEPT_NO NUMBER(5));
23
24 INSERT INTO EMPLOYEE VALUES('Doug',
    'E', 'Gilbert', 554433221, '09
    -JUN-60', '11 S 59 E, Salt Lake
    City, UT', 'M', 80000, NULL, 3
    );

```

```

25 INSERT INTO EMPLOYEE VALUES('Joyce',
    NULL, 'PAN', 543216789, '07-FEB
    -78', '35 S 18 E, Salt Lake City,
    UT', 'F', 70000, NULL, 2);
26 INSERT INTO EMPLOYEE VALUES('Frankin',
    'T', 'Wong', 333445555, '08-DEC
    -45', '638 Voss, Houston, TX',
    'M', 40000, 554433221, 5);
27 INSERT INTO EMPLOYEE VALUES('Jennifer',
    'S', 'Wallace', 987654321, '20
    -JUN-31', '291 Berry, Bellaire,
    TX', 'F', 43000, 554433221, 4);
28 INSERT INTO EMPLOYEE VALUES('Johny',
    'B', 'Smith', 123456789, '09-JAN
    -55', '731 Fondren, Houston, TX',
    'M', 30000, 333445555, 5);
29 INSERT INTO EMPLOYEE VALUES('Ramesh',
    'K', 'Narayan', 666884444, '15
    -SEP-52', '975 Fire Oak, Humble,
    TX', 'M', 38000, 333445555, 5);
30 INSERT INTO EMPLOYEE VALUES('Joyce',
    'A', 'English', 453453453, '31
    -JUL-62', '5631 Rice, Houston, TX'
    , 'F', 25000, 333445555, 5);
31 INSERT INTO EMPLOYEE VALUES('James',
    'E', 'Borg', 888665555, '10-NOV
    -27', '450 Stone, Houston, TX',

```

```

    'M', 55000, 543216789, 1);
32 INSERT INTO EMPLOYEE VALUES('Alicia',
    'J', 'Zelaya', 999887777, '19
    -JUL-58', '3321 Castle, Spring,
    TX', 'F', 25000, 987654321, 4);

33 INSERT INTO EMPLOYEE VALUES('Ahmad',
    'V', 'Jabbar', 987987987, '29
    -MAR-59', '980 Dallas, Houston,
    TX', 'M', 25000, 987654321, 4);

34
35 INSERT INTO DEPARTMENT VALUES
    ('Manufacture', 1, 888665555,
    '19-JUN-71');
36 INSERT INTO DEPARTMENT VALUES
    ('Administration', 2, 543216789,
    '04-JAN-99');
37 INSERT INTO DEPARTMENT VALUES
    ('Headquarter', 3, 554433221,
    '22-SEP-55');
38 INSERT INTO DEPARTMENT VALUES('Finance'
    , 4, 987654321, '01-JAN-85');
39 INSERT INTO DEPARTMENT VALUES
    ('Research', 5, 333445555, '22
    -MAY-78');

40
41 INSERT INTO PROJECT VALUES('ProjectA',
    3388, 'Houston', 1 );

```

```

42 INSERT INTO PROJECT VALUES('ProjectB',
    1945, 'Salt Lake City', 3 );
43 INSERT INTO PROJECT VALUES('ProjectC',
    6688, 'Houston', 5 );
44 INSERT INTO PROJECT VALUES('ProjectD',
    2423, 'Bellaire', 4 );
45 INSERT INTO PROJECT VALUES('ProjectE',
    7745, 'Sugarland', 5 );
46 INSERT INTO PROJECT VALUES('ProjectF',
    1566, 'Salt Lake City', 3 );
47 INSERT INTO PROJECT VALUES('ProjectG',
    1234, 'New York', 2 );
48 INSERT INTO PROJECT VALUES('ProjectH',
    3467, 'Stafford', 4 );
49 INSERT INTO PROJECT VALUES('ProjectI',
    4345, 'Chicago', 1 );
50 INSERT INTO PROJECT VALUES('ProjectJ',
    2212, 'San Francisco', 2 );

51
52 SELECT * FROM EMPLOYEE WHERE
    DEPARTMENT_NUMBER=1;

53
54 SELECT FIRST_NAME, MID_NAME, LAST_NAME,
    SSN_NUMBER, SUPERVISOR_SSN FROM
    EMPLOYEE;

55
56 SELECT FIRST_NAME, LAST_NAME, BIRTHDAY
    FROM EMPLOYEE WHERE BIRTHDAY='29
    -MAR-1959';

```

```
57
58 SELECT DISTINCT SALARY, FIRST_NAME,
    LAST_NAME FROM EMPLOYEE;
59
60 SELECT MANAGERSSN, MANAGESTARTDATE FROM
    DEPARTMENT WHERE DEPARTMENT_NAME
    ='Research';
61
62 UPDATE EMPLOYEE SET DEPARTMENT_NUMBER=5
    WHERE FIRST_NAME='Joyce';
63
64 ALTER TABLE DEPARTMENT ADD
    CONTACT_NUMBER NUMBER(10);
65 UPDATE DEPARTMENT SET CONTACT_NUMBER
    =1234567890 WHERE DEPT_NO=1;
66 UPDATE DEPARTMENT SET CONTACT_NUMBER
    =1234567890 WHERE DEPT_NO=2;
67 UPDATE DEPARTMENT SET CONTACT_NUMBER
    =1234567890 WHERE DEPT_NO=3;
68 UPDATE DEPARTMENT SET CONTACT_NUMBER
    =1234567890 WHERE DEPT_NO=4;
69 UPDATE DEPARTMENT SET CONTACT_NUMBER
    =1234567890 WHERE DEPT_NO=5;
70
71 ALTER TABLE DEPARTMENT MODIFY
    CONTACT_NUMBER NUMBER(11);
72
73 ALTER TABLE DEPARTMENT RENAME COLUMN
    CONTACT_NUMBER TO MOBILENO
74
75 RENAME DEPARTMENT TO DEPT;
76
77 ALTER TABLE DEPARTMENT DROP COLUMN
    CONTACT_NO;
```



James|E|Borg|888665555|10-NOV-27|450 Stone,  
Houston, TX|M|55000|543216789|1  
Doug|E|Gilbert|554433221|  
Joyce||PAN|543216789|  
Frankin|T|Wong|333445555|554433221  
Jennifer|S|Wallace|987654321|554433221  
Johny|B|Smith|123456789|333445555  
Ramesh|K|Narayan|666884444|333445555  
Joyce|A|English|453453453|333445555  
James|E|Borg|888665555|543216789  
Alicia|J|Zelaya|999887777|987654321  
Ahmad|V|Jabbar|987987987|987654321  
80000|Doug|Gilbert  
70000|Joyce|PAN  
40000|Frankin|Wong  
43000|Jennifer|Wallace  
30000|Johny|Smith  
38000|Ramesh|Narayan  
25000|Joyce|English55000|James|Borg  
25000|Alicia|Zelaya  
25000|Ahmad|Jabbar