

Assignment #3:

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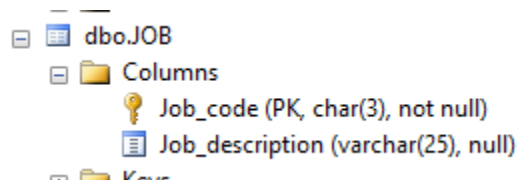
Date: Nov 4, 2019

1. Write SQL code that will create the table structure for a table named EMP_1. Remember that the JOB_CODE is the foreign key to JOB table.

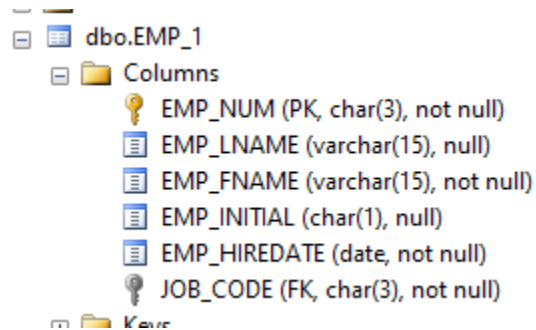
| Attribute | Data |
|--------------|-----------------------|
| EMP_NUM | CHAR (3), PRIMARY KEY |
| EMP_LNAME | VARCAHR(15) |
| EMP_FNAME | VARCAHR(15) |
| EMP_INITIAL | CHAR (1) |
| EMP_HIREDATE | DATE |
| JOB_CODE | CHAR(3) |

Create Database EMPLOYEE;

```
create table JOB(
Job_code Char(3) not null primary key,
Job_description varchar(25));
```



```
Create table EMP_1(
EMP_NUM CHAR(3) not null,
EMP_LNAME VARCHAR(15),
EMP_FNAME VARCHAR(15) not null,
EMP_INITIAL char(1),
EMP_HIREDATE Date not null,
JOB_CODE char(3) not null,
primary key(EMP_NUM),
foreign key (Job_CODE)
references JOB(Job_code));
```



2. Write a SQL codes to populate the EMP_1 as below:

```
insert into JOB VALUES ('200', 'HUMAN RESOURCE');
insert into JOB VALUES ('500', 'IT ENGINEERING');
insert into JOB VALUES ('501', 'SOFT DEVELOPER ENGINEERING');
insert into JOB VALUES ('502', 'SOFT TESTER ENGINEERING');
insert into JOB VALUES ('503', 'PROJECT MANAGER');
insert into JOB VALUES ('504', 'PROJECT MANAGER');
insert into JOB VALUES ('505', 'DIRECTOR');
insert into JOB VALUES ('506', 'ADMIN');
```

```
SElect * from JOB;
```

| Results | | Messages |
|---------|----------|-------------------------|
| | Job_code | Job_description |
| 1 | 200 | HUMAN RESOURCE |
| 2 | 500 | IT ENGINEERING |
| 3 | 502 | SOFT TESTER ENGINEERING |
| 4 | 503 | PROJECT MANAGER |
| 5 | 504 | PROJECT MANAGER |
| 6 | 505 | DIRECTOR |
| 7 | 506 | ADMIN |

```
insert into EMP_1 VALUES (101, 'NEWS', 'JOHN', 'G', '02-01-2011', '502');
insert into EMP_1 VALUES (102, 'SENIOR', 'DAVID', 'H', '01-09-2014', '500');
insert into EMP_1 VALUES (103, 'JOHNSON', 'ALICE', 'J', '07-06-2013', '500');
insert into EMP_1 VALUES (104, 'ALONZO', 'MARIA', 'L', '09-02-2016', '200');
insert into EMP_1 VALUES (105, 'RADILFO', 'RALK', 'Y', '05-05-2015', '506');
```

```
select * from EMP_1;
```

| | EMP_NUM | EMP_LNAME | EMP_FNAME | EMP_INITIAL | EMP_HIREDATE | JOB_CODE |
|---|---------|-----------|-----------|-------------|--------------|----------|
| 1 | 101 | NEWS | JOHN | G | 2011-02-01 | 502 |
| 2 | 102 | SENIOR | DAVID | H | 2014-01-09 | 500 |
| 3 | 103 | JOHNSON | ALICE | J | 2013-07-06 | 500 |
| 4 | 104 | ALONZO | MARIA | L | 2016-09-02 | 200 |
| 5 | 105 | RADILFO | RALK | Y | 2015-05-05 | 506 |

3. Write the SQL code that changes the job code 500 for the employee number 103.

```
-- Alter EMP_1 DB
alter table EMP_1 nocheck constraint FK__EMP_1__JOB_CODE__1273C1CD
update EMP_1 SET EMP_1.JOB_CODE = '501' where EMP_NUM= '103';
```

| | EMP_NUM | EMP_LNAME | EMP_FNAME | EMP_INITIAL | EMP_HIREDATE | JOB_CODE |
|---|---------|-----------|-----------|-------------|--------------|----------|
| 1 | 101 | NEWS | JOHN | G | 2011-02-01 | 502 |
| 2 | 102 | SENIOR | DAVID | H | 2014-01-09 | 500 |
| 3 | 103 | JOHNSON | ALICE | J | 2013-07-06 | 501 |
| 4 | 104 | ALONZO | MARIA | L | 2016-09-02 | 200 |
| 5 | 105 | RADILFO | RALK | Y | 2015-05-05 | 506 |

4. Write a SQL code to delete a row with person with the name Ralk Radolfo with hire date 05-05-2015.

```
delete from EMP_1 where (EMP_FNAME = 'RALK' and EMP_LNAME = 'RADILFO' and
EMP_HIREDATE = '05-05-2015');
```

| | EMP_NUM | EMP_LNAME | EMP_FNAME | EMP_INITIAL | EMP_HIREDATE | JOB_CODE |
|---|---------|-----------|-----------|-------------|--------------|----------|
| 1 | 101 | NEWS | JOHN | G | 2011-02-01 | 502 |
| 2 | 102 | SENIOR | DAVID | H | 2014-01-09 | 500 |
| 3 | 103 | JOHNSON | ALICE | J | 2013-07-06 | 501 |
| 4 | 104 | ALONZO | MARIA | L | 2016-09-02 | 200 |

5. Write a SQL code that will find the count of the employees hired after 01-02-2011.

```
select count(*) as 'count of the employees hired after 01-02-2011' from EMP_1
where EMP_HIREDATE > '01-02-2011';
```

| | | | |
|---------|-----------------------------------------------|----------|--|
| Results | | Messages | |
| | count of the employees hired after 01-02-2011 | | |
| 1 | 4 | | |

6. Write a SQL code that print the name of all the employees ordered by last name first and then their employee number having job codes > 200.

```
select EMP_LNAME, EMP_FNAME from EMP_1 where JOB_CODE > 200 order by EMP_FNAME;
```

7. Write a SQL code that updates employee EMP_FNAME to Sara with EMP_NUM 101.

```
update EMP_1 SET EMP_FNAME = 'Sara' where EMP_NUM= '101';
```

results

messages

| | EMP_NUM | EMP_LNAME | EMP_FNAME | EMP_INITIAL | EMP_HIREDATE | JOB_CODE |
|---|---------|-----------|-----------|-------------|--------------|----------|
| 1 | 101 | NEWS | Sara | G | 2011-02-01 | 502 |
| 2 | 102 | SENIOR | DAVID | H | 2014-01-09 | 500 |
| 3 | 103 | JOHNSON | ALICE | J | 2013-07-06 | 501 |
| 4 | 104 | ALONZO | MARIA | L | 2016-09-02 | 200 |

