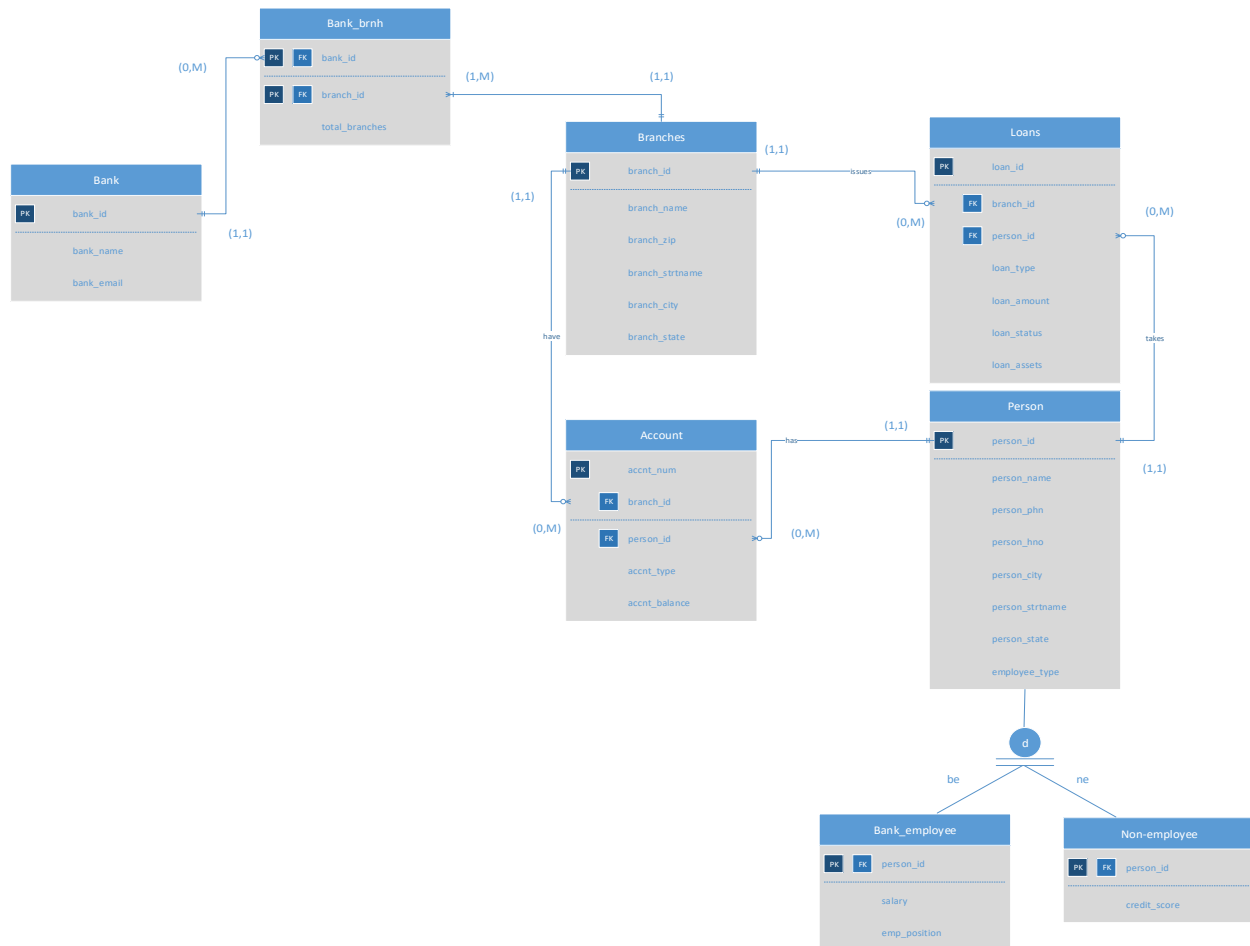


AIT-524-002
Database Management Systems
Assignment-8
SUJAN CHAVA
George Mason University

ER-DIAGRAM:**Table creation in Oracle sql-plus:**

The table creation using SQL-plus and the structure of the each table in the above ER-diagram is created and the output of the queries is shown in the screenshots below.

1) Bank:

The screenshot shows a 'Query Builder' window with a 'Worksheet' tab. The SQL script in the editor is:

```
create table bank(bank_id number(3) primary key, bank_name varchar2(25), bank_email varchar2(35));
describe bank;
```

Below the script, the name 'SUJAN CHAVA' is entered. The 'Script Output' window at the bottom shows the execution results:

Table BANK created.

Name	Null?	Type
BANK_ID	NOT NULL	NUMBER(3)
BANK_NAME		VARCHAR2(25)
BANK_EMAIL		VARCHAR2(35)

2) Branches:

The screenshot shows a 'Query Builder' window with a 'Worksheet' tab. The SQL script in the editor is:

```
create table branches(branch_id number(3) primary key, branch_name varchar(25), branch_zip number(5), branch_strtname varchar(25),
                     branch_city varchar(25), branch_state varchar(25));
describe branches;
```

Below the script, the name 'SUJAN CHAVA' is entered. The 'Script Output' window at the bottom shows the execution results:

Table BRANCHES created.

Name	Null?	Type
BRANCH_ID	NOT NULL	NUMBER(3)
BRANCH_NAME		VARCHAR2(25)
BRANCH_ZIP		NUMBER(5)
BRANCH_STRTNAME		VARCHAR2(25)
BRANCH_CITY		VARCHAR2(25)
BRANCH_STATE		VARCHAR2(25)

3) Bank_brnh:

Worksheet Query Builder

```

create table bank_brnh(bank_id number(3),branch_id number(3),total_branches number(3),
                      constraint cnstrnt_pk primary key (bank_id,branch_id),
                      constraint bank_fk foreign key (bank_id) references bank(bank_id),
                      constraint branch_fk foreign key (branch_id) references branches(branch_id));

describe bank_brnh;

```

SUJAN CHAVA

Script Output x

Task completed in 2.698 seconds

Table BANK_BRNH created.

Name	Null?	Type
BANK_ID	NOT NULL	NUMBER(3)
BRANCH_ID	NOT NULL	NUMBER(3)
TOTAL_BRANCHES		NUMBER(3)

4) Person:

Worksheet Query Builder

```

create table person(person_id number(3) primary key,person_name varchar2(25),person_phn varchar2(25),person_hno varchar2(25),
                    person_city varchar2(25),person_strtname varchar2(25),person_state varchar2(25),employee_type varchar2(2),
                    constraint emply_chk CHECK (employee_type = 'be' OR employee_type = 'ne'));

describe person;

```

SUJAN CHAVA

Script Output x

Task completed in 2.586 seconds

Table PERSON created.

Name	Null?	Type
PERSON_ID	NOT NULL	NUMBER(3)
PERSON_NAME		VARCHAR2(25)
PERSON_PHN		VARCHAR2(25)
PERSON_HNO		VARCHAR2(25)
PERSON_CITY		VARCHAR2(25)
PERSON_STRTNAME		VARCHAR2(25)
PERSON_STATE		VARCHAR2(25)
EMPLOYEE_TYPE		VARCHAR2(2)

5) Account:

Worksheet Query Builder | 2.73699999 seconds | GMU-5

```

create table account(accnt_num varchar2(10) primary key,branch_id number(3),person_id number(3),acct_type varchar2(25),acct_balance number,
                    constraint brnh_fk foreign key (branch_id) references branches(branch_id),
                    constraint prsn_fk foreign key (person_id) references person(person_id))

describe account;

```

SUJAN CHAVA

Script Output x | Task completed in 2.737 seconds

Table ACCOUNT created.

Name	Null?	Type
ACCNT_NUM	NOT NULL	VARCHAR2(10)
BRANCH_ID		NUMBER(3)
PERSON_ID		NUMBER(3)
ACCNT_TYPE		VARCHAR2(25)
ACCNT_BALANCE		NUMBER

6) Loans:

Worksheet Query Builder

```

create table loans(loan_id number primary key,branch_id number,person_id number,loan_type varchar2(25),loan_amount number,
                  loan_status varchar2(25),loan_assets number,
                  constraint brn_fk foreign key (branch_id) references branches(branch_id),
                  constraint psn_fk foreign key (person_id) references person(person_id))

describe loans;

```

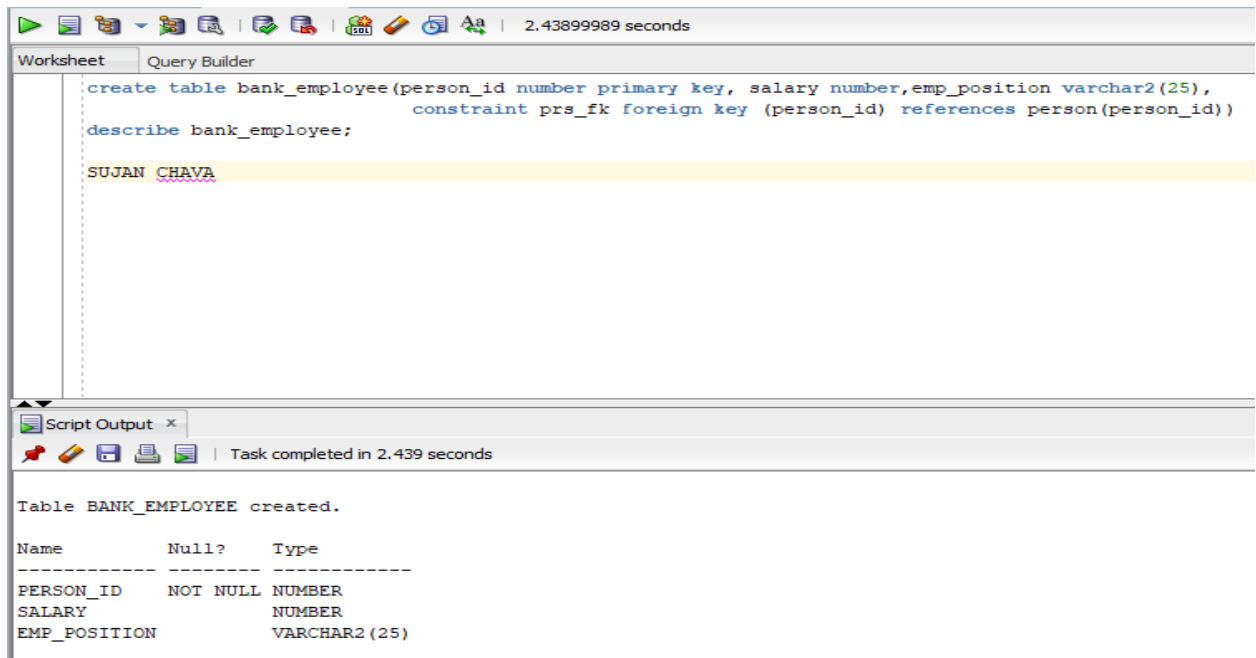
SUJAN CHAVA

Script Output x | Task completed in 0.165 seconds

Table LOANS created.

Name	Null?	Type
LOAN_ID	NOT NULL	NUMBER
BRANCH_ID		NUMBER
PERSON_ID		NUMBER
LOAN_TYPE		VARCHAR2(25)
LOAN_AMOUNT		NUMBER
LOAN_STATUS		VARCHAR2(25)
LOAN_ASSETS		NUMBER

7) Bank_employee:



The screenshot shows the SQL Developer interface. The top toolbar indicates a duration of 2.43899989 seconds. The 'Worksheet' tab is active, displaying the following SQL script:

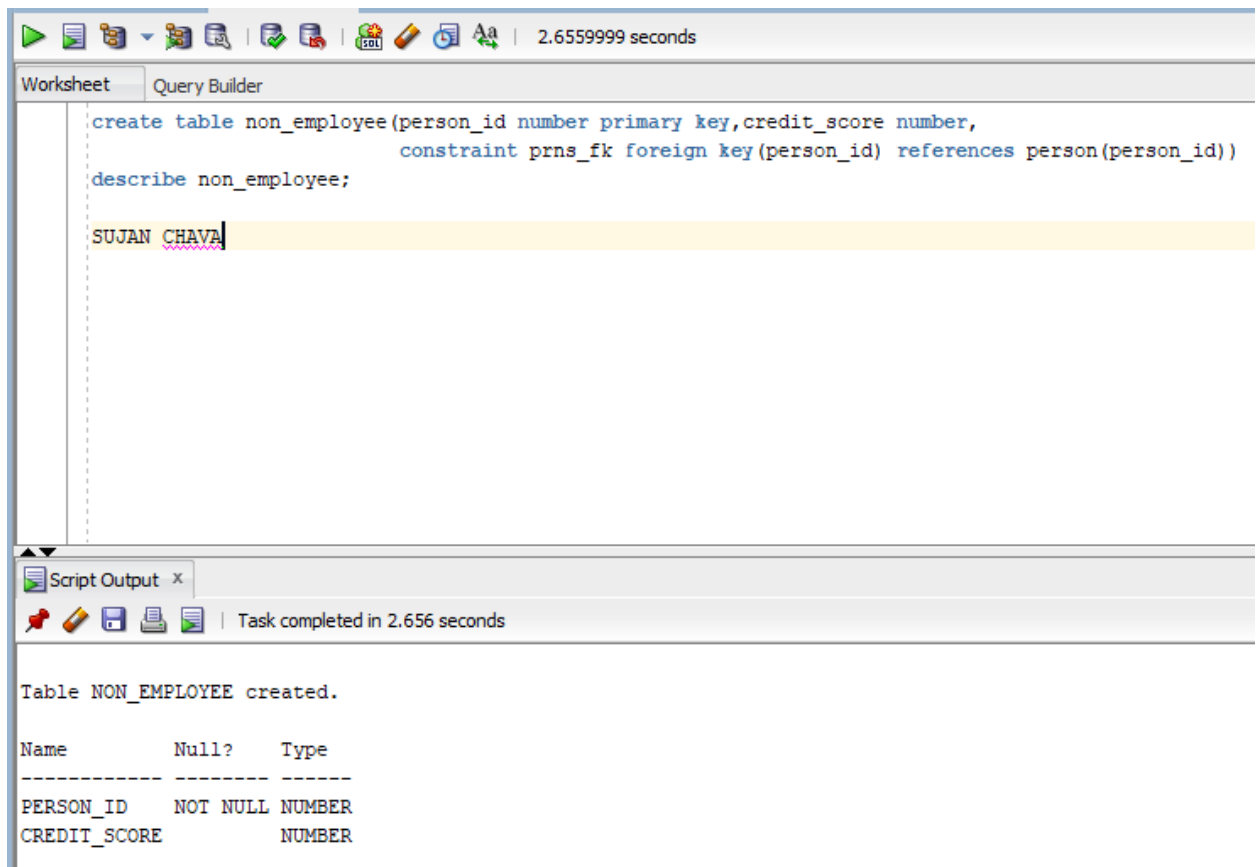
```
create table bank_employee(person_id number primary key, salary number, emp_position varchar2(25),
                           constraint prs_fk foreign key (person_id) references person(person_id))
describe bank_employee;
```

Below the script, the username 'SUJAN CHAVA' is visible. The 'Script Output' window at the bottom shows the execution results:

Table BANK_EMPLOYEE created.

Name	Null?	Type
PERSON_ID	NOT NULL	NUMBER
SALARY		NUMBER
EMP_POSITION		VARCHAR2 (25)

8) Non-employee:



The screenshot shows the SQL Developer interface. The top toolbar indicates a duration of 2.6559999 seconds. The 'Worksheet' tab is active, displaying the following SQL script:

```
create table non_employee(person_id number primary key, credit_score number,
                          constraint prns_fk foreign key (person_id) references person(person_id))
describe non_employee;
```

Below the script, the username 'SUJAN CHAVA' is visible. The 'Script Output' window at the bottom shows the execution results:

Table NON_EMPLOYEE created.

Name	Null?	Type
PERSON_ID	NOT NULL	NUMBER
CREDIT_SCORE		NUMBER