CMPE 341 LAB 2 EXERCISE- 1

This Lab Exercise covers the following topics:

- Creating and Managing Table (DDL)
- Primary Key, Foreign Key
- Manipulating Data (DML)
- 1. Create a Database of an Architecture Firm. There are 3 tables in database; Architects, Customers and Design. Here are the attributes for the tables:

```
Architects ( <u>SSN</u>, Name, Surname, Start_date )

Start_date takes the current date if it is not

assigned. Customers( <u>SSN</u>, Name, Surname,

Telephone, e-mail) Telephone can not be null and

e-mail should be unique.

Design( ArchitectSSN, CustomerSSN, MeterSquare, Price)
```

(ArchitectSSN as foreign key comes from the Architects table, CustomerSSN as foreign key comes from Customers Table. Also ArchitectSSN and CustomerSSN are primary keys for Design Table)

```
create table
Architects (SSN
number primary key,
Name varchar2(20),
Surname
varchar2(30),
Start_date date default sysdate
)
create table
Customers(SSN
number(11),
Name varchar2(20),
Surname
varchar2(30),
Telephone varchar2(10) not
null, e mail varchar2(30),
unique(e_mail),
primary key(SSN)
Create table Design (
ArchitectSSN
number(11),
```

```
CustomerSSN
number(11),
MeterSquare
number(10),
Price
number(10),
primary key (ArchitectSSN,CustomerSSN),
foreign key (ArchitectSSN) references
Architects(SSN), foreign key (CustomerSSN)
references Customers(SSN)
)
```

- 2. Insert records (rows) into tables using the values below.
 - a. Architect with

Name: Darren Surname: Corrado SSN:123123123 Start date:

b. Design with

ArchitectSSN:123123123 CustomerSSN: 234234234 MeterSquare: 150

Price:500000

c. Customer with

SSN: 234234234 Name: Cody Surname: Gilbreth Telephone:

6140001000

e-mail: cgilbreth@gmail.com

insert into Architects values (123123123, 'Darren', 'Corrado', NULL) insert into Customers values (234234234,'Cody','Gilbreth','6140001000', 'cgilbreth@gmail.com') insert into Design values (123123123, 234234234, 150, 50000)

3. Show the structure (Describe) the table customers.

Desc customers