-- #1

--Author Table

CREATE Table Author (

LastName VarChar2(20),

FirstName VarChar2(20),

ID Number(6),

Birthdate Date,

Constraint Author\_PK

Primary Key(ID)

);

--Publisher Table

Create Table Publisher (

Name VarChar2(50),

PubNumber Number(\*,0),

Address VarChar2(25),

Constraint Publisher\_PK

Primary Key(PubNumber)

);

--Books Table

Create Table Books (

ISBN Char(8),

Title VarChar2(50),

PubNumber Number(\*,0),

Constraint Books\_PK

Primary Key(ISBN),

Constraint Books\_FK

Foreign Key(PubNumber)

References Publisher(PubNumber)

);

--Relational Table

Create Table Relation (

ID Number(6),

ISBN Char(8),

authorPosition Number(\*,0),

Constraint Relation\_PK

Primary Key(ID, ISBN),

Constraint Author\_FK

Foreign Key(ID)

References Author(ID),

Constraint Book\_FK

Foreign Key(ISBN)

References Books(ISBN)

);

-- #2

Insert into Author values ('King', 'Stephen', 2,to\_date('September 9 1947','Month dd yyyy'));

Insert into Author values ('Asimov', 'Isaac', 4, to\_date('January 2 1921','Month dd yyyy'));

Insert into Author values ('Verne', 'Jules', 7, to\_date('February 8 1828','Month dd yyyy'));

Insert into Author values ('Rowling', 'Joanne', 37, to\_date('July 31 1965','Month dd yyyy'));

select \* from author;

Insert into Publisher values ('Bloomsbury Publishing',17,'London Borough of Camden');

Insert into Publisher values ('Arthur A. Levine Books',18,'New York City');

select \* from publisher;

Insert into Books values ('1111-111', 'Databases from outer space', 17);

Insert into Books values ('2222-232', 'Revenge of SQL', 17);

Insert into Books values ('3333-323', 'The night of the living databases', 18);

select \* from books;

Insert into Relation values (2, '1111-111', 1);

Insert into Relation values (4, '1111-111', 2);

Insert into Relation values (4, '2222-232', 2);

Insert into Relation values (7, '2222-232', 1);

Insert into Relation values (37, '3333-323', 1);

Insert into Relation values (2, '3333-323', 2);

select \* from relation;

-- #3

--Departments Table

Create Table Departments (

Name VarChar2(25),

Chair VarChar2(15),

Endowment Number(\*,0),

Constraint Departments\_PK

Primary Key (Name)

);

--Advisors Table

Create Table Advisors (

ID Number(\*,0),

Name VarChar2(25),

Address VarChar2(50),

researchArea VarChar2(15),

DeptName VarChar2(15),

Constraint Adivsors\_PK

Primary Key (ID),

Constraint Department\_FK

Foreign Key (DeptName)

References Departments(Name)

);

--Student Table

Create Table Students (

StudentID Number(\*,0),

FirstName VarChar2(25),

LastName VarChar2(25),

DOB Date,

Telephone Char(10),

AdvisorID Number(\*,0),

Constraint Students\_PK

Primary Key (StudentID),

Constraint Advisor\_FK

Foreign Key (AdvisorID)

References Advisors(ID)

);