PART II A.SCRIPT#1

SKILL

```sql
SQL> CREATE TABLE Skill
  2  (Code        NUMBER(4)       CONSTRAINT Skill_Code_PK PRIMARY KEY,
  3   Name        VARCHAR2(15)   CONSTRAINT SKILL_NAME_NN NOT NULL,
  4   Category    VARCHAR2(15),
  5   CONSTRAINT Skill_Code_CK CHECK(Code >= 0),
  6   CONSTRAINT Skill_Category_CK CHECK
  7              (Category IN ('Communication','Programming', 'Management')),
  8   CONSTRAINT SKill_Name_CK CHECK (Name IN ('Speaking','Java','C++', 'Python',
  9                                    'Leadership','Writing','Decision Making')));

Table created.
```

DEPARTMENT

```sql
SQL> CREATE TABLE Department
  2  (Dept_Code  NUMBER(2) CONSTRAINT Department_Dept_Code_PK PRIMARY KEY,
  3   Name        VARCHAR2(15) CONSTRAINT Department_Name_NN NOT NULL,
  4   Location    VARCHAR2(15)CONSTRAINT Department_Location_NN NOT NULL,
  5   Phone       VARCHAR2(12),
  6   Manager_ID NUMBER(4),
  7   CONSTRAINT Department_Manager_ID_CK CHECK (Manager_ID > 0),
  8   CONSTRAINT Department_Location_CK CHECK (Location IN ('A100', 'B101', 'B103', 'C303', 'A102','D101')));

Table created.
```

EMPLOYEE

```sql
SQL> CREATE TABLE Employee
  2  (Emp_Num        NUMBER(4)        CONSTRAINT Employee_Emp_Num_PK PRIMARY KEY,
  3   LNAME          VARCHAR2(10),
  4   FNAME          VARCHAR2(10),
  5   DOB            DATE,
  6   Hire_Date      DATE         DEFAULT SYSDATE,
  7   Super_ID       NUMBER(4),
  8   Dept_Code      NUMBER(4),
  9   CONSTRAINT Employee_Dept_Code_FK FOREIGN KEY(Dept_Code) REFERENCES Department(Dept_Code),
 10   CONSTRAINT Employee_Super_ID_FK  FOREIGN KEY(Super_ID)  REFERENCES Employee (Emp_Num));
```

Table created.

TRAINING

```
SQL> CREATE TABLE Training
  2 (Train_Num      NUMBER(4)      CONSTRAINT Training_Train_Num_PK PRIMARY KEY,
  3  Code           NUMBER(4),
  4  Emp_Num        NUMBER(4),
  5  Name           VARCHAR2(30)    CONSTRAINT Training_Name_NN NOT NULL,
  6  Date_Acquired  DATE,
  7  Comments       VARCHAR2(70),
  8  CONSTRAINT Training_Code_FK    FOREIGN KEY (Code)    REFERENCES Skill (Code),
  9  CONSTRAINT Training_Emp_Num_FK FOREIGN KEY (Emp_Num) REFERENCES Employee (Emp_NUM));
```

Table created.

CLIENT

```
SQL> CREATE TABLE Client
  2 (Client_ID      NUMBER(4)      CONSTRAINT CLIENT_CLIENT_ID_PK PRIMARY KEY,
  3  Name           VARCHAR2(12)    CONSTRAINT CLIENT_NAME_NN NOT NULL,
  4  Street         VARCHAR2(20),
  5  City           VARCHAR2(12),
  6  State          VARCHAR2(2)     CONSTRAINT CLIENT_STATE_NN NOT NULL
  7         CONSTRAINT CLIENT_STATE_CK
  8         CHECK (STATE IN ('AL', 'AK','AZ','AR','CA','CO','CT',
  9          'DE','FL','GA','HI','ID','IL','IN','IA','KS','KY','LA','ME','MD',
 10          'MA','MI','MN','MS','MO','MT','NE','NV','NH','NJ','NM',
 11          'NY','NC','ND','OH','OK','OR','PA','RI','SC','SD','TN',
 12          'TN','TX','UT','VT','VA','WA','WV','WI','WY')),
 13  Zip_Code       VARCHAR2(5),
 14  Industry       VARCHAR2(11)    CONSTRAINT CLIENT_INDUSTRY_CK
 15         CHECK (INDUSTRY IN ('Internet', 'E-Commerce', 'Banking', 'Investment')) ,
 16  Web_Address    VARCHAR2(20),
 17  Phone          VARCHAR2(12),
 18  Contact_LName  VARCHAR2(10),
 19  Contact_Fname  VARCHAR2(10));
```

Table created.

PROJECT
```
SQL> CREATE TABLE Project
  2 (Proj_Number   NUMBER(4)            CONSTRAINT Project_PROJ_NUMBER_PK PRIMARY KEY,
  3   NAME           VARCHAR2(30),
  4   Start_Date     DATE                 DEFAULT SYSDATE,
  5   Total_Cost     NUMBER(6,2)          CONSTRAINT PROJECT_TOTAL_COST_CK
  6      CHECK (TOTAL_COST > 0),
  7   Dept_Code     NUMBER(4)            CONSTRAINT PROJECT_DEPT_CODE_FK
  8      REFERENCES DEPARTMENT (DEPT_CODE),
  9   Client_ID     NUMBER(4)              CONSTRAINT PROJECT_CLIENT_ID_FK
 10      REFERENCES CLIENT (CLIENT_ID),
 11   Code           NUMBER(4)              CONSTRAINT PROJECT_CODE_FK
 12      REFERENCES SKILL (CODE));

Table created.
```

ASSIGNMENT
```
SQL> CREATE TABLE Assignment
  2 (Assign_Num     NUMBER(4)    CONSTRAINT Assignment_Assign_Num_PK PRIMARY KEY,
  3   Proj_Number     NUMBER(4)    CONSTRAINT Assignment_Proj_Number_FK
  4  REFERENCES PROJECT (PROJ_NUMBER),
  5   Emp_Num         NUMBER(4)    CONSTRAINT Assignment_Emp_Numb_FK
  6  REFERENCES EMPLOYEE (Emp_Num),
  7   Date_Assigned  DATE             DEFAULT SYSDATE,
  8   Date_Ended      DATE,
  9   Hours_Used     NUMBER(4)    CONSTRAINT Assignment_Hours_Used_CK CHECK (Hours_Used >= 0),
 10                               CONSTRAINT Assignment_Date_Ended_CK CHECK (Date_Ended >= Date_Assigned));

Table created.
```