**CPS510 Fall2021 Section 04**

**Group-11**

**Assignment 3**

**Schema Design**

End of Logical Database Design/ Phase 1

**Application Name: Online Job Bank System.**

Group Member names:

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**Source Code:**

DROP TABLE JB\_Users CASCADE CONSTRAINTS;

DROP TABLE JB\_Members CASCADE CONSTRAINTS;

DROP TABLE Recruiters CASCADE CONSTRAINTS;

DROP TABLE JB\_Postings;

DROP TABLE Qualifications;

DROP TABLE Memberships;

DROP TABLE Connections;

DROP TABLE HR\_Department;

CREATE TABLE JB\_Users (

login\_id VARCHAR2(25 CHAR),

user\_password VARCHAR2(25 CHAR),

CONSTRAINT user\_login\_id\_pk PRIMARY KEY(login\_id)

);

CREATE TABLE JB\_Members (

member\_id VARCHAR2(25 CHAR),

member\_type VARCHAR2(25 CHAR),

address VARCHAR2(25 CHAR),

org\_id VARCHAR2(25 CHAR),

email VARCHAR2(25 CHAR),

date\_Created VARCHAR2(25 CHAR),

member\_name VARCHAR2 (25 CHAR),

CONSTRAINT member\_pk PRIMARY KEY(member\_id),

CONSTRAINT JBUser\_fk FOREIGN KEY (member\_name) REFERENCES JB\_Users(login\_id) -- Foreign Key

);

CREATE TABLE Recruiters (

recr\_id VARCHAR2(25 CHAR),

member\_id VARCHAR2(25 CHAR),

job\_id VARCHAR2(25 CHAR),

date\_created VARCHAR2(25 CHAR),

email VARCHAR2(25 CHAR),

phone VARCHAR2(12 CHAR) DEFAULT '(000)-000-0000',

address VARCHAR2(25 CHAR),

CONSTRAINT Recruiters\_pk PRIMARY KEY(recr\_id),

FOREIGN KEY (member\_id) REFERENCES JB\_Members (member\_id)

);

CREATE TABLE JB\_Postings (

job\_id VARCHAR2 (20 CHAR),

work\_period NUMBER,

company VARCHAR2(25 CHAR),

salary NUMBER,

job\_title VARCHAR2(25 CHAR),

job\_location VARCHAR2(25 CHAR),

job\_type VARCHAR2(25 CHAR),

effective\_date VARCHAR2(25 CHAR),

end\_date VARCHAR2(25 CHAR),

CONSTRAINT jobs\_pk PRIMARY KEY (job\_id),--primary key

FOREIGN KEY (company) REFERENCES recruiters (recr\_id) --Foreign Key

);

CREATE TABLE Qualifications(

qualification\_id VARCHAR2(10 CHAR),

user\_degree VARCHAR2(50 CHAR) DEFAULT 'Undergraduate',

JB\_User\_id VARCHAR2(25 CHAR) NOT NULL,

years\_experience NUMBER CHECK (years\_experience BETWEEN 0 AND 30),

coverLetter VARCHAR2(1000 CHAR),

license VARCHAR2(25 CHAR),

CONSTRAINT qualification\_pk PRIMARY KEY (qualification\_id),--Primary ID

FOREIGN KEY (JB\_user\_id) REFERENCES JB\_Users (login\_id) --Foreign Key

);

CREATE TABLE Memberships (

permission\_id VARCHAR2(10 CHAR),

user\_id VARCHAR2(25 CHAR),

Type VARCHAR2(25 CHAR),

Description VARCHAR2(25 CHAR),

Start\_date VARCHAR2(25 CHAR),

End\_date VARCHAR2(25 CHAR),

CONSTRAINT permission\_pk PRIMARY KEY(permission\_id),

FOREIGN KEY (user\_id) REFERENCES JB\_Users (login\_id)

);

CREATE TABLE Connections (

conn\_id VARCHAR2(12 CHAR),

user\_id VARCHAR2(25 CHAR),

date\_made VARCHAR2(25 CHAR),

details VARCHAR2(150 CHAR),

CONSTRAINT conn\_pk PRIMARY KEY(conn\_id),

FOREIGN KEY (user\_id) REFERENCES JB\_Users (login\_id)

);

CREATE TABLE HR\_Department (

depart\_id VARCHAR2(25 CHAR),

organization\_id VARCHAR2(25 CHAR),

depart\_name VARCHAR2(50 CHAR),

hr\_manager VARCHAR2(50 CHAR),

no\_employees NUMBER,

CONSTRAINT depart\_pk PRIMARY KEY(depart\_id),

FOREIGN KEY (organization\_id) REFERENCES Recruiters (recr\_id)

);





