

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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Student#: 500969935

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),

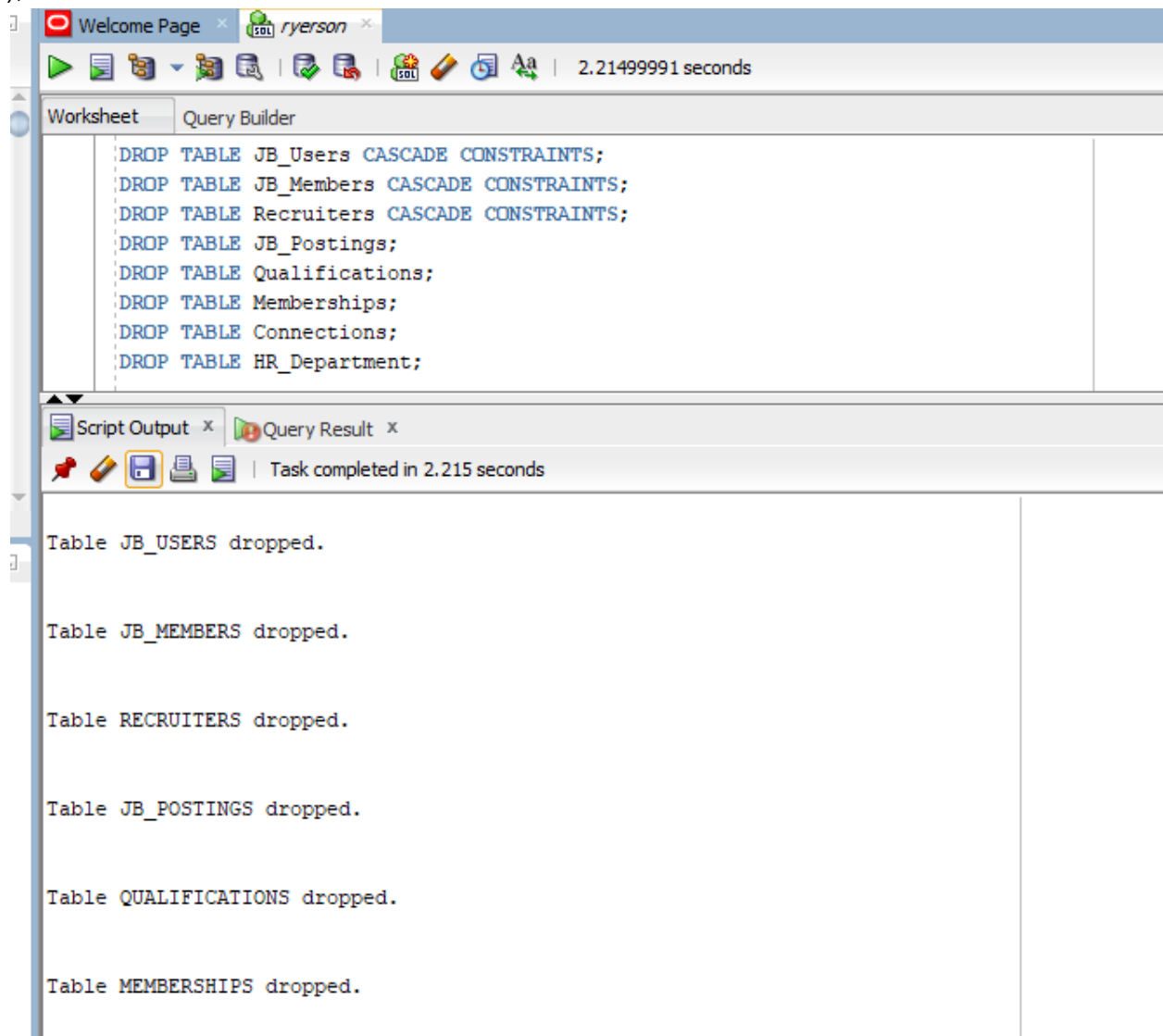
```

```

        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)
    );

```



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2.21499991 seconds

Worksheet Query Builder

```
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)
```

Script Output x Query Result x

Task completed in 2.215 seconds

Table JB_USERS created.

Table JB_MEMBERS created.

Table RECRUITERS created.

Table JB_POSTINGS created.

Table QUALIFICATIONS created.

Table MEMBERSHIPS created.

Script Output x Query Result x

Task completed in 2.215 seconds

Table JB_POSTINGS created.

Table QUALIFICATIONS created.

Table MEMBERSHIPS created.

Table CONNECTIONS created.

Table HR_DEPARTMENT created.