

Name: Khushi Joshi  
Task: Coding Challenge 2  
Topic: CareerHub, The Job Board

# CODING CHALLENGE

## CareerHub

### 1) SQL Schema:

```
CREATE DATABASE CareerHub;  
USE CareerHub;
```

```
CREATE TABLE Company (  
    CompanyID INT PRIMARY KEY IDENTITY(1,1),  
    CompanyName VARCHAR(255) NOT NULL,  
    Location VARCHAR(255)  
);
```

```
CREATE TABLE JobListing (  
    JobID INT PRIMARY KEY IDENTITY(50,1),  
    CompanyID INT,  
    JobTitle VARCHAR(255) NOT NULL,  
    JobDescription TEXT,  
    JobLocation VARCHAR(255),  
    Salary DECIMAL(15, 2),  
    JobType VARCHAR(50),  
    PostedDate DATETIME,  
    FOREIGN KEY (CompanyID) REFERENCES Company(CompanyID)  
);
```

```
CREATE TABLE Applicant (  
    ApplicantID INT PRIMARY KEY IDENTITY(100,1),  
    FirstName VARCHAR(255) NOT NULL,  
    LastName VARCHAR(255) NOT NULL,  
    Email VARCHAR(255) NOT NULL,  
    Phone VARCHAR(20) NOT NULL,  
    Resume VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE JobApplication (  
    ApplicationID INT PRIMARY KEY IDENTITY(200,1),  
    JobID INT NOT NULL,  
    ApplicantID INT NOT NULL,  
    ApplicationDate DATETIME NOT NULL,  
    CoverLetter TEXT,  
    FOREIGN KEY (JobID) REFERENCES JobListing(JobID),  
    FOREIGN KEY (ApplicantID) REFERENCES Applicant(ApplicantID)  
);
```

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## 2) Menu:

```
Initializing database schema...
Database initialized successfully.

--- Job Board Application ---
1. Post a Job
2. Register a Company
3. Register an Applicant
4. Apply for a Job
5. View All Job Listings
6. View All Companies
7. View All Applicants
8. View Applications for a Specific Job
9. Exit
Enter your choice:
```

## 3) Post a Job:

```
1. Post a Job
2. Register a Company
3. Register an Applicant
4. Apply for a Job
5. View All Job Listings
6. View All Companies
7. View All Applicants
8. View Applications for a Specific Job
9. Exit
Enter your choice: 1
Enter Company ID: 2
Enter Job Title: Software Developer-1
Enter Job Description: Programming well-designed, testable, efficient codeProducing specifications and determine operational feasibility
Enter Job Location: Pune
Enter Salary: 500000
Enter Job Type (Full-time/Part-time/Contract): Full-Time
Job listing for 'Software Developer-1' added successfully.
Job 'Software Developer-1' posted successfully.
```

## 4) Register a company:

```
--- Job Board Application ---
1. Post a Job
2. Register a Company
3. Register an Applicant
4. Apply for a Job
5. View All Job Listings
6. View All Companies
7. View All Applicants
8. View Applications for a Specific Job
9. Exit
Enter your choice: 2
Enter Company Name: Genisys
Enter Company Location: Indore
Company 'Genisys' added successfully.
Company 'Genisys' registered successfully.
```

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### 5) Register an Applicant:

```
--- Job Board Application ---
1. Post a Job
2. Register a Company
3. Register an Applicant
4. Apply for a Job
5. View All Job Listings
6. View All Companies
7. View All Applicants
8. View Applications for a Specific Job
9. Exit
Enter your choice: 3
Enter First Name: Jinisha
Enter Last Name: Kataria
Enter Email: jinisha.kataria@gmail.com
Enter Phone Number: 6789012345
Enter Resume (file path or description): jinisha_resume.pdf
Applicant 'Jinisha Kataria' added successfully.
Applicant 'Jinisha Kataria' registered successfully.
```

### 6) Apply for a Job:

```
--- Job Board Application ---
1. Post a Job
2. Register a Company
3. Register an Applicant
4. Apply for a Job
5. View All Job Listings
6. View All Companies
7. View All Applicants
8. View Applications for a Specific Job
9. Exit
Enter your choice: 4
Enter Applicant ID: 110
Enter Job ID: 60
Enter Cover Letter: N/A
Job application by applicant ID 110 for job ID 60 submitted successfully.
Application submitted for Job ID 60 by Applicant ID 110.
```

### 7) View All Job Listings:

```
--- Job Listings ---
Job ID: 50, Title: Software Engineer, Company ID: 1, Location: Mumbai, Maharashtra, Salary: 600000.00, Type: Full-time, Posted Date: 2024-09-15 00:00:00
Job ID: 51, Title: Data Analyst, Company ID: 2, Location: Bengaluru, Karnataka, Salary: 450000.00, Type: Full-time, Posted Date: 2024-09-16 00:00:00
Job ID: 52, Title: DevOps Engineer, Company ID: 3, Location: Bengaluru, Karnataka, Salary: 700000.00, Type: Full-time, Posted Date: 2024-09-17 00:00:00
Job ID: 53, Title: Network Engineer, Company ID: 4, Location: Noida, Uttar Pradesh, Salary: 550000.00, Type: Full-time, Posted Date: 2024-09-18 00:00:00
Job ID: 54, Title: Project Manager, Company ID: 5, Location: Mumbai, Maharashtra, Salary: 900000.00, Type: Full-time, Posted Date: 2024-09-19 00:00:00
Job ID: 55, Title: Marketing Manager, Company ID: 6, Location: Bengaluru, Karnataka, Salary: 800000.00, Type: Full-time, Posted Date: 2024-09-20 00:00:00
Job ID: 56, Title: UI/UX Designer, Company ID: 7, Location: Gurgaon, Haryana, Salary: 500000.00, Type: Full-time, Posted Date: 2024-09-21 00:00:00
Job ID: 57, Title: Content Writer, Company ID: 8, Location: Bengaluru, Karnataka, Salary: 400000.00, Type: Part-time, Posted Date: 2024-09-22 00:00:00
Job ID: 58, Title: Finance Analyst, Company ID: 9, Location: Noida, Uttar Pradesh, Salary: 600000.00, Type: Full-time, Posted Date: 2024-09-23 00:00:00
Job ID: 59, Title: Data Engineer, Company ID: 10, Location: Mumbai, Maharashtra, Salary: 750000.00, Type: Full-time, Posted Date: 2024-09-24 00:00:00
Job ID: 60, Title: Software Developer-1, Company ID: 2, Location: Pune, Salary: 500000.00, Type: Full-Time, Posted Date: 2024-10-04 16:42:34.397000
```

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### 8) View All Companies:

```
--- Companies ---  
Company ID: 1, Name: Tata Consultancy Services, Location: Mumbai, Maharashtra  
Company ID: 2, Name: Infosys, Location: Bengaluru, Karnataka  
Company ID: 3, Name: Wipro, Location: Bengaluru, Karnataka  
Company ID: 4, Name: HCL Technologies, Location: Noida, Uttar Pradesh  
Company ID: 5, Name: Reliance Industries, Location: Mumbai, Maharashtra  
Company ID: 6, Name: Flipkart, Location: Bengaluru, Karnataka  
Company ID: 7, Name: Zomato, Location: Gurgaon, Haryana  
Company ID: 8, Name: Swiggy, Location: Bengaluru, Karnataka  
Company ID: 9, Name: Paytm, Location: Noida, Uttar Pradesh  
Company ID: 10, Name: Hexaware, Location: Chennai, Tamil Nadu  
Company ID: 11, Name: Genisys, Location: Indore
```

### 9) View All Applicants:

```
--- Applicants ---  
Applicant ID: 100, Name: Sarthak Londhey, Email: sarthak.londhey@gmail.com, Phone: 9826996450  
Applicant ID: 101, Name: Yash Agrawal, Email: sde.yash.agrawal@gmail.com, Phone: 6263605492  
Applicant ID: 102, Name: Khushi Joshi, Email: khushijoshi0129@gmail.com, Phone: 8770108629  
Applicant ID: 103, Name: Sneha Verma, Email: sneha.verma@gmail.com, Phone: 9876543200  
Applicant ID: 104, Name: Rohit Singh, Email: rohit.singh@gmail.com, Phone: 8876543214  
Applicant ID: 105, Name: Neha Kapoor, Email: neha.kapoor@gmail.com, Phone: 6876543215  
Applicant ID: 106, Name: Arjun Kumar, Email: arjun.kumar@gmail.com, Phone: 9876543944  
Applicant ID: 107, Name: Sakshi Desai, Email: sakshi.desai@gmail.com, Phone: 9876543217  
Applicant ID: 108, Name: Vikram Rao, Email: vikram.rao@gmail.com, Phone: 6876543218  
Applicant ID: 109, Name: Anjali Jain, Email: anjali.jain@gmail.com, Phone: 7876543219  
Applicant ID: 110, Name: Jinisha Kataria, Email: jinisha.kataria@gmail.com, Phone: 6789012345
```

### 10) View Application for a Specific Job:

```
--- Job Board Application ---  
1. Post a Job  
2. Register a Company  
3. Register an Applicant  
4. Apply for a Job  
5. View All Job Listings  
6. View All Companies  
7. View All Applicants  
8. View Applications for a Specific Job  
9. Exit  
Enter your choice: 8  
Enter Job ID: 60  
  
--- Applications for Job ID 60 ---  
Application ID: 210, Applicant ID: 110, Application Date: 2024-10-04 16:49:37.957000, Cover Letter: N/A
```

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11) Exit:

```
--- Job Board Application ---
1. Post a Job
2. Register a Company
3. Register an Applicant
4. Apply for a Job
5. View All Job Listings
6. View All Companies
7. View All Applicants
8. View Applications for a Specific Job
9. Exit
Enter your choice: 9
Exiting the application.
PS D:\Language Training Hexa\Coding_c\CareerHub>
```