Ahsanullah University of Science and Technology (AUST)
Department of Computer Science and Engineering

Course No.: CSE4126

Course Title: Distributed Database Systems Lab

Report On: Alumni360

Semester: Fall 2022

Date of Submission – 17/08/23

Submitted To-
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Submitted By-
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Member 2:
190204110 : Sarkar Bulbul Ahammed

Lab Group: B2
Year: 4th
Semester: 1st
Department: CSE

Project Title: Alumni360

Objective: The objective of this project is to store alumni information for future usages.This project will help the freshers for job oppurtunity and build up a good community among current student and alumni.

Database schema:

Table alumni_fragment2:

alumni_id (NUMBER)

first_name (VARCHAR2(50))

last_name (VARCHAR2(50))

graduation_year (NUMBER)

email (VARCHAR2(100))

phone_number (VARCHAR2(20))

address (VARCHAR2(200))

department (VARCHAR2(100))

job_title (VARCHAR2(100))

company (VARCHAR2(100))

social_media_handles (VARCHAR2(200))

Table events_fragment2:

event_id (NUMBER)

event_name (VARCHAR2(100))

event_date (DATE)

event_location (VARCHAR2(200))

event_description (VARCHAR2(500))

Table job_opportunities2:

job_id (NUMBER)

job_title (VARCHAR2(100))

job_description (VARCHAR2(500))

job_location (VARCHAR2(200))

company (VARCHAR2(100))

job_posting_date (DATE)

Table fund_fragment2:

fund_id (NUMBER)

alumni_id (NUMBER)

fund_amount (NUMBER)

fund_date (DATE)

fund_purpose (VARCHAR2(200))

- Table:

Site 1	Site 2
alumni_fragment1	alumni_fragment2
events_fragment1	events_fragment2
job_opportunities1	job_opportunities2
fund_fragment1	fund_fragment2

- Data insert on table

    alumni_fragment1=SL graduation_year

    alumni_fragment2=SL graduation_year > 2015

    events_fragment1=SL event_date <= '2022-01-01'

    events_fragment2=SL event_date > '2022-01-01'

    **job_opportunities->Same Date will store in both site (if one site gone to offline still data can be access)

    **fund_fragment1->Same Date will store in both site (if one site gone to offline still data can be access)

Functionalities with output:

Alumni Fund Statisttics:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\DDSLab-main\Project\P
Alumni Fund Statistics:
-------------------------
Maximum Fund Amount: 100000
Minimum Fund Amount: 250
Average Fund Amount: 13327.7777777777777777777777777777777778
```

Fund Details:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\D
Fund Details:
-------------------------
Fund ID: 201
Alumni ID: 201
Fund Amount: 300
Fund Date: 2023-11-22
Fund Purpose: Community Development Fund
-------------------------
Fund ID: 202
Alumni ID: 202
Fund Amount: 800
Fund Date: 2023-12-15
Fund Purpose: Environmental Fund
-------------------------
Fund ID: 203
Alumni ID: 203
Fund Amount: 1500
Fund Date: 2024-01-05
Fund Purpose: Healthcare Fund
-------------------------
Fund ID: 204
Alumni ID: 204
Fund Amount: 600
Fund Date: 2024-02-18
Fund Purpose: Disaster Relief Fund
-------------------------
```

Member Count:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\DDSLab-main\Pr
Total number of alumni in both fragments: 7

PL/SQL procedure successfully completed.
```

Job Data:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\DDSLab-main\Project\PC_2\SQL_F
Job Opportunities:
--------------------------
Job ID: 201
Job Title: Project Manager
Job Description: Experienced project manager needed to oversee multiple
projects.
Job Location: Town E
Company: Project Solutions
Job Posting Date: 2023-11-10
--------------------------
Job ID: 202
Job Title: Business Analyst
Job Description: Join our team to analyze business processes and suggest
improvements.
Job Location: City F
Company: Business Consultants
Job Posting Date: 2023-12-05
```

Event Data:

```
SQL> @ C:\Users\ASUS\Desktop\dds lab project\DDSLab-main\Project\PC_2\SQL_P
Events from Remote Server:
--------------------------
Event ID: 101
Event Name: Historic Seminar
Event Date: 2019-11-20
Event Location: Historic Venue
Event Description: Seminar that took place a couple of years ago.
--------------------------
Event ID: 102
Event Name: Vintage Workshop
Event Date: 2018-06-05
Event Location: Old Workshop Hall
Event Description: Workshop conducted a few years back.
--------------------------
Event ID: 103
Event Name: Throwback Conference
Event Date: 2017-10-12
Event Location: Retrospective Center
Event Description: A conference held a few years ago on various topics.
--------------------------
Events from Local Server:
--------------------------
Event ID: 201
Event Name: Conference A
```

Alumni data:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\DDSLab-main\Proje
Alumni ID: 101, Name: John Doe, Graduation Year: 2010
Alumni ID: 102, Name: Jane Smith, Graduation Year: 2005
Alumni ID: 103, Name: Michael Johnson, Graduation Year: 2012
Alumni ID: 201, Name: Emily Brown, Graduation Year: 2016
Alumni ID: 202, Name: Daniel Lee, Graduation Year: 2017
Alumni ID: 203, Name: Sophia Wilson, Graduation Year: 2019
Alumni ID: 204, Name: Oliver Martinez, Graduation Year: 2020
```

Search Alumni:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\
Enter the graduation_year: 2010
Alumni Info (Remote Table): 101, John, Doe
```

Update Graduation Year:

```
SQL> @"C:\Users\ASUS\Desktop\dds lab project\DDSLab-main\
Enter value for p_alumni_id: 101
Enter value for p_new_graduation_year: 2011
Graduation year updated successfully for Alumni ID: 101
Procedure called successfully.
```

Contribution: We have done the project together by discussing with each other.But some specific task is done by individuals that is given below .

Table: Id:190204093,190204110

Graduation Year update:Id:190204093

Member Count:190204110

Trigger:Id:190204093

Event:190204110

Alumni :190204093

Fund:190204093

Job:190204110