

URM Application - SCHEMA

Group 5:

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The schema for the Underrepresented Minority Application data management is give as follows:

The logical Model is as follows:

In the logical model three tables will be used to represent the entities and their relationship between the entities.

1. URM Candidate Table

<u>Candidate_ID</u>	Candidate_Name	Email	Address	Education	Contact_Info	skills	Research_Exp	Gender	DOB

Key Column

Candidate_ID

Type

Primary

Source Table

Self

2. Institution Table

<u>Institution_ID</u>	Institution_Name	Email	Address	Contact_Info

Key Column	Type	Source Table
Institution_ID	Primary	Self

3. Job_Postings Table

<u>Job_ID</u>	Recruiter_ID	Application_deadline	salary

Key Column	Type	Source Table
Job_ID	Primary Key	Self
Recruiter_ID	Foreign Key	Recruiter Table

4. Recruiter Table

<u>Recruiter_ID</u>	Contact_Info	Institution_ID	Recruiter_Instituion_Name

Key Column	Type	Source Table
Recruiter_ID	Primary	Self
Institution_ID	Foreign	Institution table

5. Feedback Table

<u>Feedback_ID</u>	Comments	Timestamp	Rating	Candidate_ID	Recruiter_ID

Key Column	Type	Source Table
Feedback_ID	Primary Key	Self
Recruiter_ID	Foreign Key	Recruiter Table
Candidate_ID	Foreign Key	URM Candidate

6. DEI_officer Table

<u>Officer_ID</u>	Name	Contact_Info	Institution_ID

Key Column	Type	Source Table
Officer_ID	Primary	Self
Institution_ID	Foreign Key	Institution Table

7. Messaging Table

<u>Message_ID</u>	Sender_ID	Reciever_ID	timestamp	Message content

Key Column	Type	Source Table
Message_ID	Primary	self
Sender_ID	foreign	User Table

8. User Table

<u>User_ID</u>	Email	Password	Role

Key Column

Type

Source Table

User_ID

Primary

self

The Physical Model

The physical model explains how the database's tables are organized. It describes the attributes of the tables, their type, and their sizes.

URM Candidate Table

Attribute Name	Data type
Candidate_ID	varchar(20), PK
Candidate_Name	Text
email	varchar(30)
skills	Text
Contact_Info	varchar(100)
education	varchar(100)
Address	Text
DOB	varchar(15)
gender	varchar(15)
Research_exp	Text

User Table

Attribute Name	Data type
User_ID	Varchar(20), PK
email	varchar(30)
role	Text
password	varchar(10)

Messaging Table

Attribute Name	Data type
Message_ID	Varchar(20), PK
Sender_ID	Varchar(20), FK
Reciever_ID	varchar(20)
Timestamp	dateandtime
messagecontent	varchar(500)

DEI_Officer Table

Attribute Name	Data type
Officer_ID	Varchar(20), PK
Name	Text
Contact_Info	Varchar(50)
Institution_ID	Varchar(20), FK

Feedback Table

Attribute Name	Data type
Feedback_ID	varchar(20), PK
rating	varchar(20)
Comments/Reports	varchar(500)
Timestamp	datetime
Candidate_ID	varchar(20), FK

Recruiter Table

Attribute Name	Data type
Recruiter_ID	varchar(20), PK
ContactInfo	varchar(50)
Recruiter_Institution/agency	varchar(50)
Institution_ID	varchar(20),FK

Job_Posting Table

Attribute Name	Data type
Job_ID	varchar(20), PK
Institution_ID	varchar(20), FK
Application Deadline	varchar(20)
salary	varchar(10)

Institution Table

Attribute Name	Data type
Institution_ID	varchar(20), PK
Instituion Name	varchar(20)
email	varchar(30)
Address	varchar(50)