

Company Internship Interview Experience Management System for MIT MTech Computer Science Students.

By

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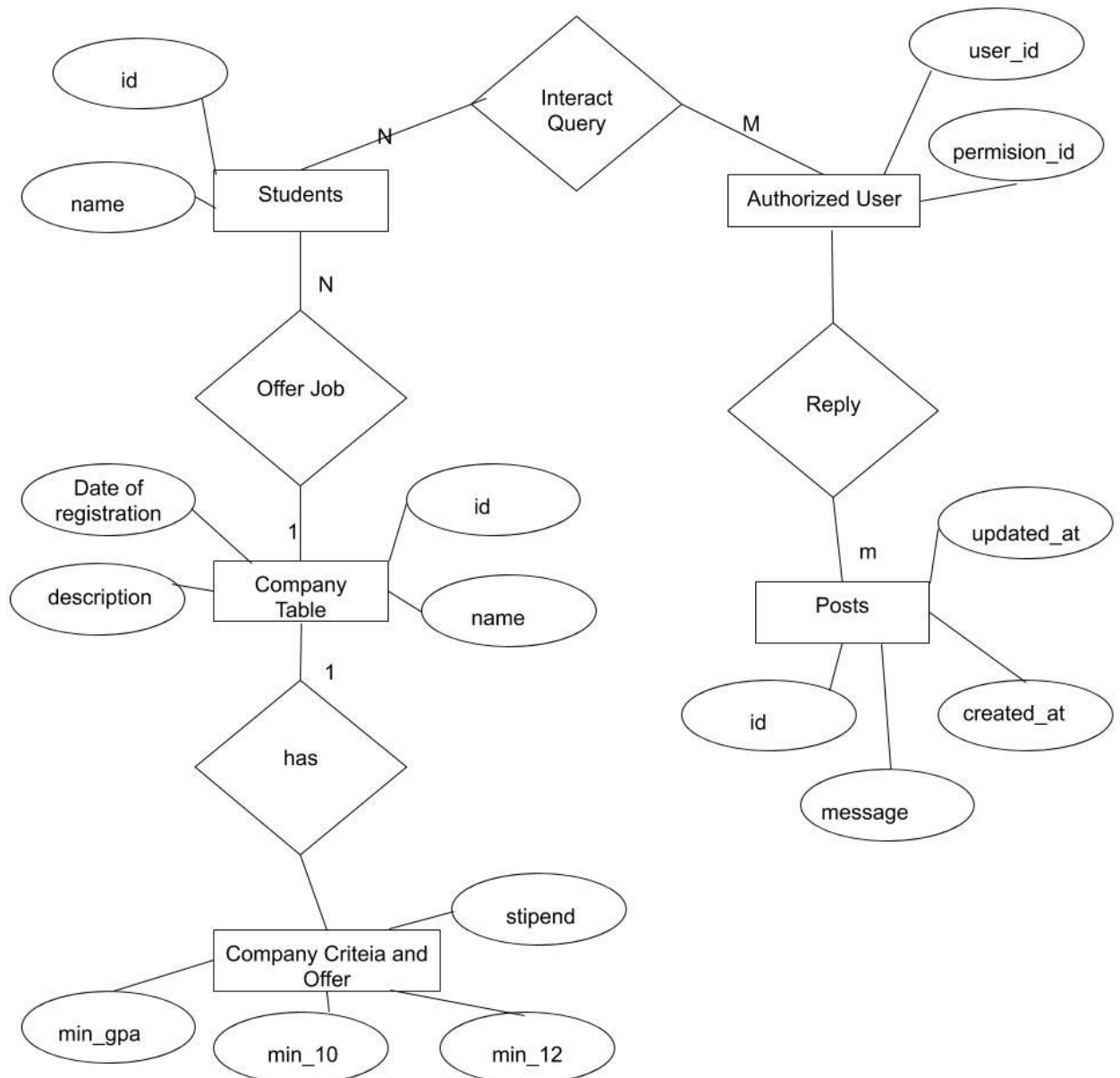
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PROBLEM STATEMENT:

Mtech students at MIT have no seniors in their college as by the time they come in the seniors have joined the company for their 1 year internship project. Hence Mtech students face many problems as to how to prepare for their Internship interviews. Many questions like the no of companies visiting, the name of the companies visiting, eligibility criteria of each company, intake of students by each company, pattern of interviewing students, their interview experience etc. To overcome this problem we decided to create a Database system which would provide detailed information of the Interview process happening at MIT, Manipal University.

RELATIONAL DATABASE SCHEMA:

- Board(name,description)
- Topic(subject, last_updated)
- Post(message,topic,created_at, updated_at, created_by, updated_by)
- CompanyTable(id, name)
- CompanySchedule(companyName, eligibleBranches, offers, lastdateofregistration)
- CompanyCriteriaAndOffer(recruitmentType, jobType, eligibleBranches, minimum_Gpa_Mtech,
- minimum_Cgpa_Btech, maximumBacklog, minimum_10_marks, minimum_12_marks, minimum_Diploma_marks, stipend, location, on_conversion)
- Auth_User(id,password,last_login,is_superuser,username,first_name,email,is_staff,is_active,date_joined,last_name)



INTEGRITY CONSTRAINTS:

- **Topic** : (board :foreignkey board ,starter: foreignkey user)
- **Post** : (created_ by : foreignkey user,updated_by foreignkey user, topic:foreignkey Topic)
- **CompanySchedule** : (company :foreignkey company table)
- **CompanyTable** : (id :primarykey)

SQL Queries

Basic :

1. `select count(id) from boards_companytable;`

count(id)	
1	5

2. `select id from boards_companytable where name like "Inf%";`

id	
1	2

3. `select count(*) from boards_comapnyschedule where offers>5;`

count(*)	
1	1

4. `select DISTINCT(name) from boards_companytable;`

name	
1	Nvidia
2	Infineon Technologies
3	Intel
4	Dell EMC
5	VmWare

5. `SELECT username from auth_user where is_staff=="1" and is_active=="1";`

username	
1	harshityadav95

Complex SQL Queries

1. `select name from boards_companytable NATURAL JOIN boards_comapnyschedule;`

name	
1	Nvidia
2	Infineon Technologies

2. `create view people_who_reply as
select distinct(username) FROM boards_post , auth_user where
boards_post.created_by_id==auth_user.id;`

SELECT * FROM people_who_reply;

username	
1	harshityadav95

3. **select message from boards_post where topic_id IN
(select board_id from boards_topic where subject like "Mtech%")**

message	
1	The Placement Schedule for the Mtech ...
2	Thanks for the Information

4. **select * from boards_board where id not in (1);**

id		name	description
1	2	CV/Resume	Creating CV and Resume for Placements &...

5. **SELECT name from boards_companytable
where not exists (select name from boards_companytable where
length(name)<3)**

name	
1	Nvidia
2	Infineon Technologies
3	Intel
4	Dell EMC
5	VmWare