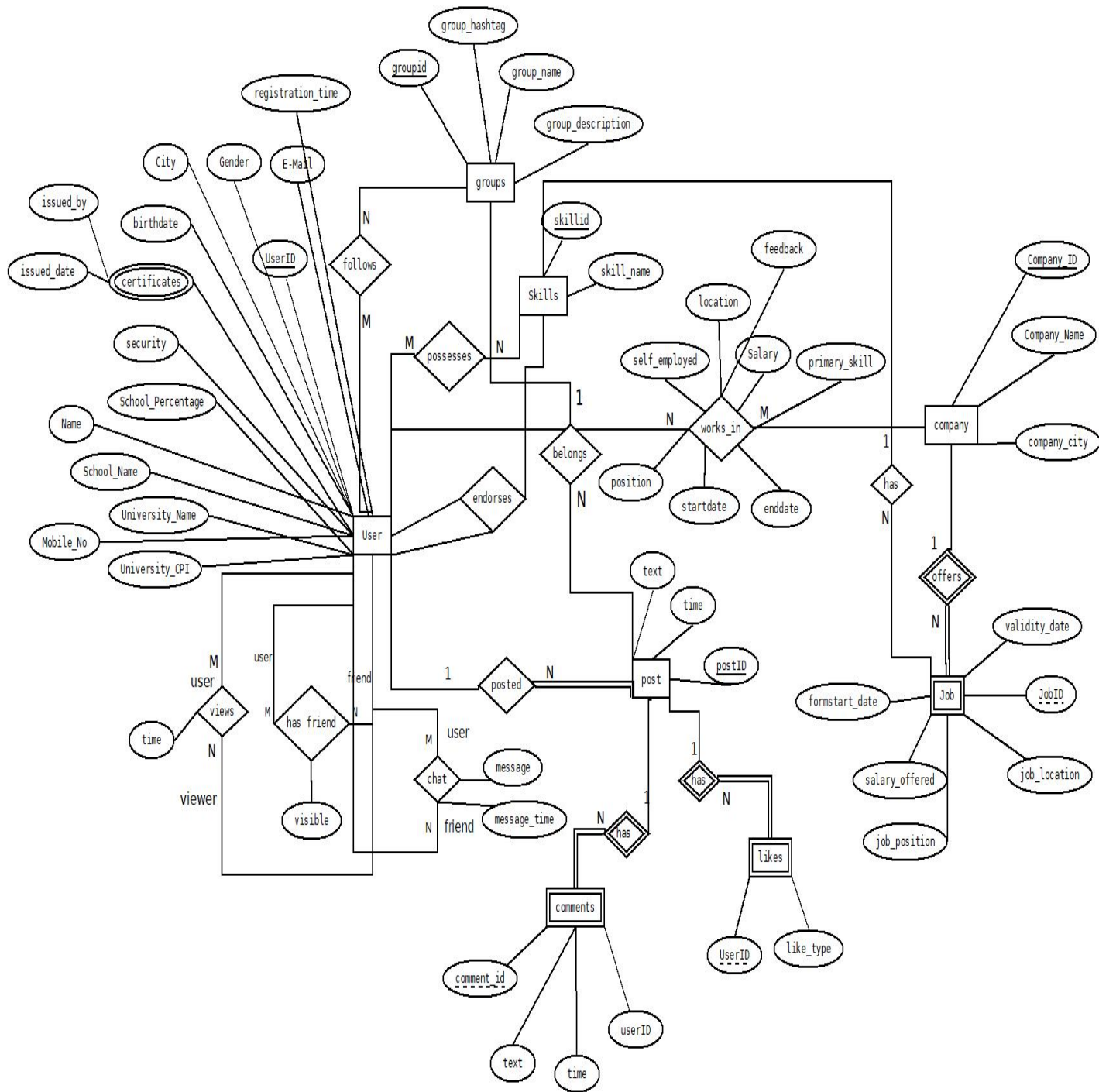
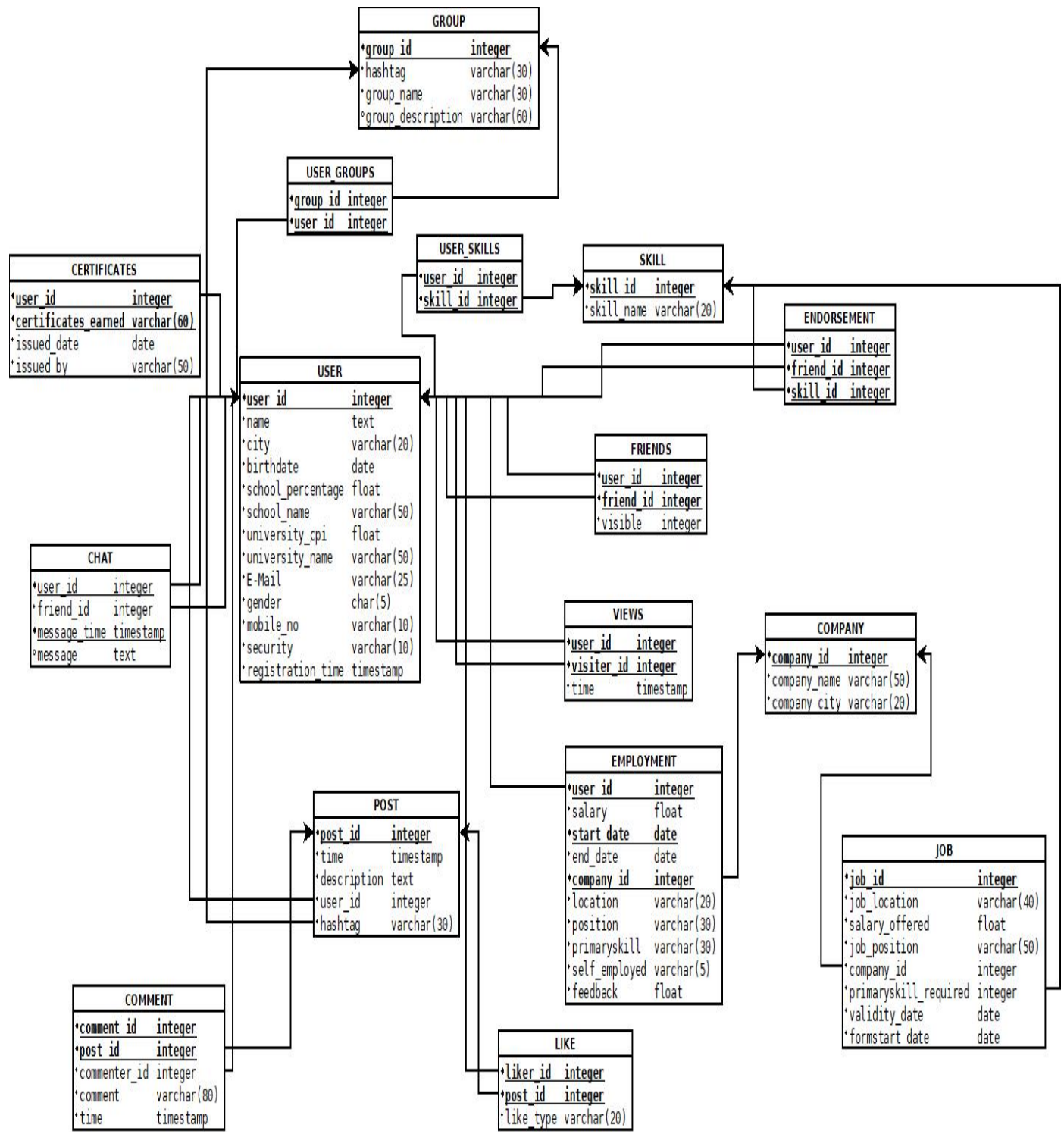


MyLinkedin Database

ERD



Relational Schema



Functional Dependencies

USER

1. user_id \rightarrow name
2. user_id \rightarrow city
3. user_id \rightarrow email
4. user_id \rightarrow birthdate
5. user_id \rightarrow gender
6. user_id \rightarrow school_name
7. user_id \rightarrow school_percentage
8. user_id \rightarrow university_name
9. user_id \rightarrow university_cpi
10. user_id \rightarrow mobileno
11. user_id \rightarrow security
12. user_id \rightarrow registration_time

SKILL

1. skill_id \rightarrow skill_name

GROUP

1. group_id \rightarrow group_name
2. group_id \rightarrow group_description
3. group_id \rightarrow group_hashtag

POST

1. post_id \rightarrow text
2. post_id \rightarrow time
3. post_id \rightarrow hashtag_topic

COMMENT

1. post_id & comment_id → commenter_id
2. post_id & comment_id → comment
3. post_id & comment_id → time

COMPANY

1. company_id → company_name
2. company_id → company_city

JOB

1. job_id → job_location
2. job_id → salary_offered
3. job_id → position
4. job_id → primaryskill_required
5. job_id → company_id
6. job_id → validity_date
7. job_id → formstart_date

FRIENDS

1. user_id & friend_id → visible

LIKE

1. liker_id & post_id → like_type

VIEWS

1. user_id & visiter_id → time

EMPLOYMENT

1. user_id & startdate & company_id → salary
2. user_id & startdate & company_id → enddate

3. user_id & startdate & company_id → location
4. user_id & startdate & company_id → position
5. user_id & startdate & company_id → self_employed
6. user_id & startdate & company_id → primaryskill
7. user_id & startdate & company_id → feedback

CERTIFICATE

1. user_id & certificate_earned → issued_date
2. user_id & certificate_earned → issued_by

CHAT

1. user_id & message_time → friend_id
2. user_id & message_time → message

Normalization Proof

All FDs are minimal and dependent on the corresponding primary key of table so all tables are in BCNF