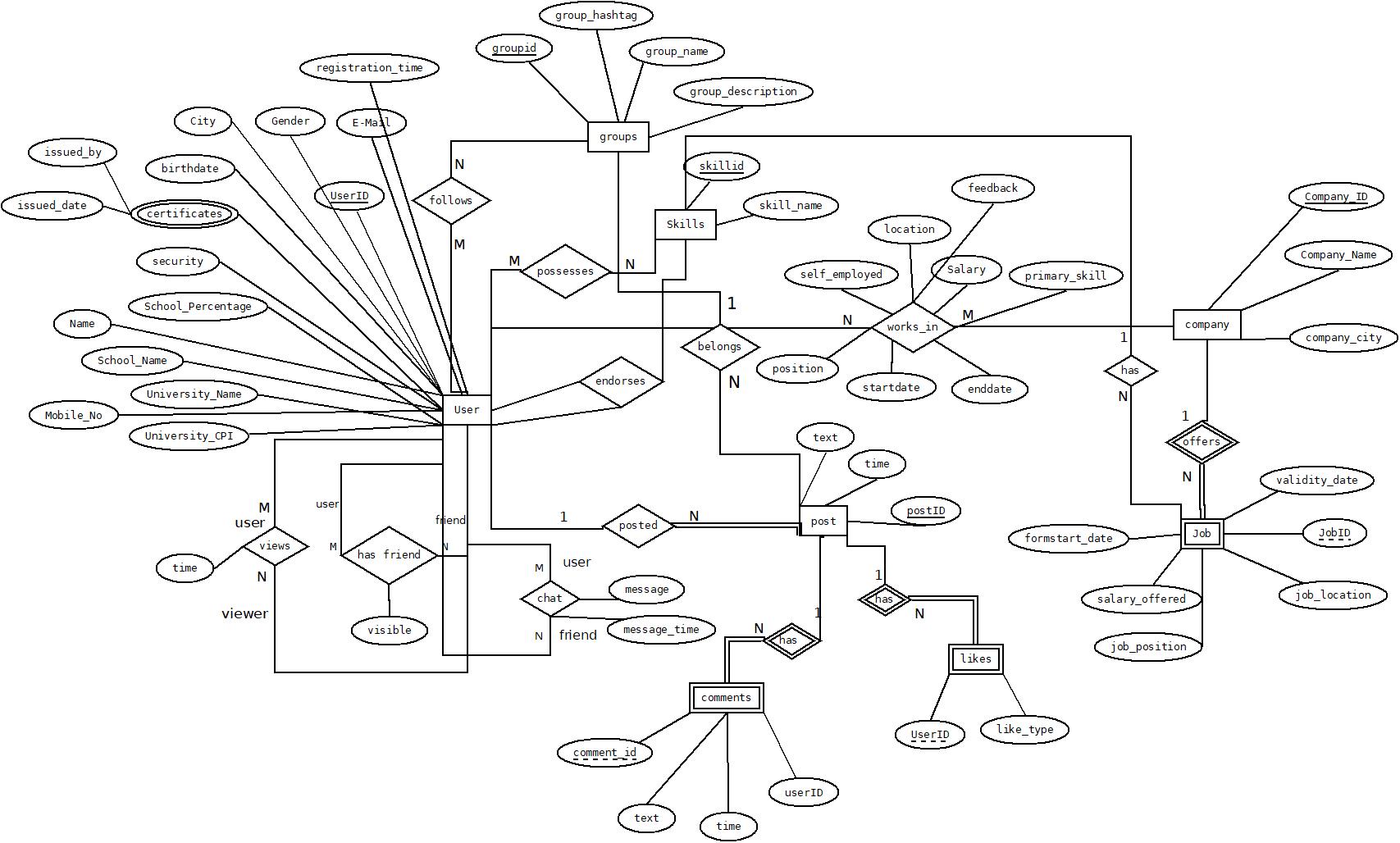
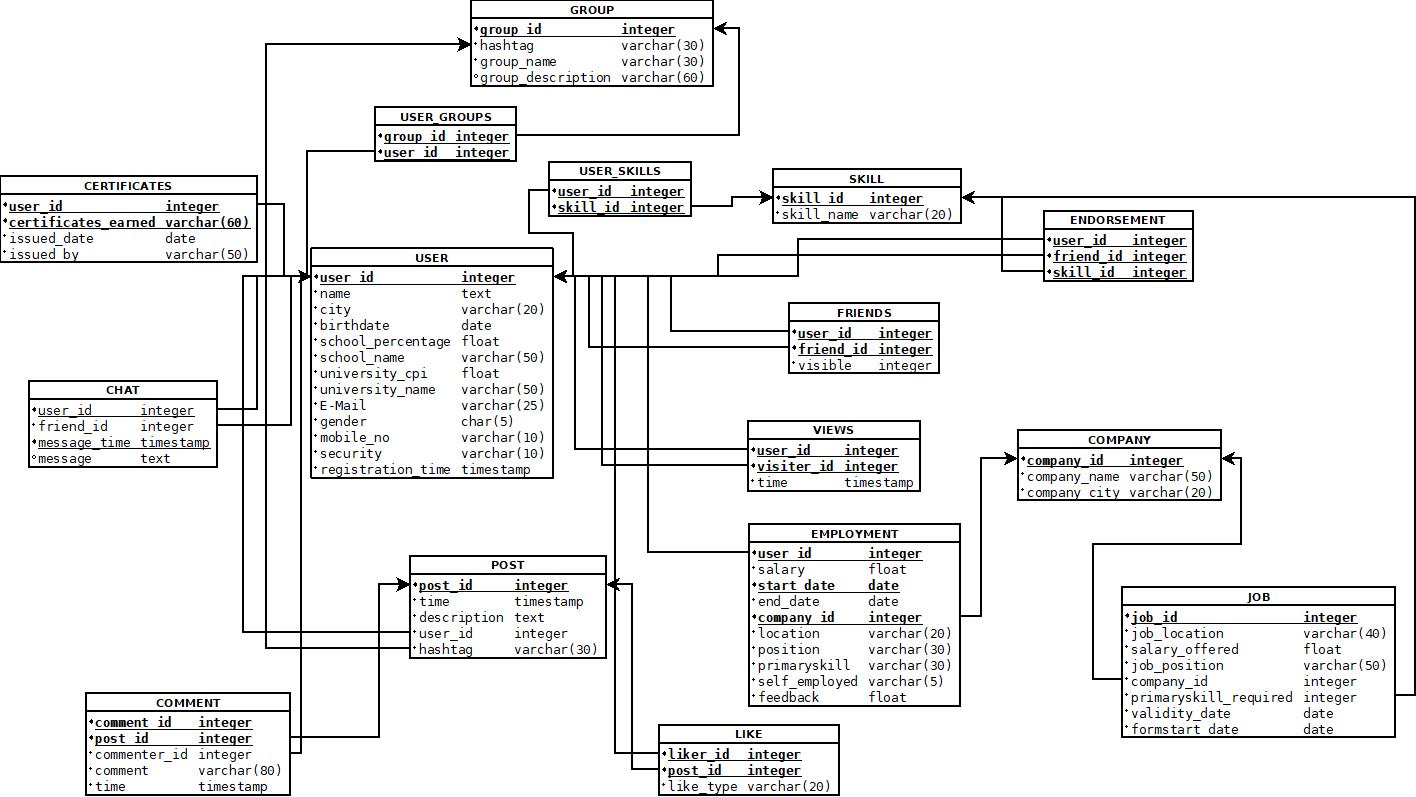
**MyLinkedin Database**

**ERD**

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**Relational Schema**

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**Functional Dependencies**

**USER**

1. user\_id → name

2. user\_id → city

3. user\_id → email

4. user\_id → birthdate

5. user\_id → gender

6. user\_id → school\_name

7. user\_id → school\_percentage

8. user\_id → university\_name

9. user\_id → university\_cpi

10. user\_id → mobileno

11. user\_id → security

12. user\_id → registration\_time

**SKILL**

1. skill\_id → skill\_name

**GROUP**

1. group\_id→ group\_name

2. group\_id→ group\_description

3. group\_id→ group\_hashtag

**POST**

1. post\_id → text

2. post\_id → time

3. post\_id → 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