member_courses
member_id	integer
course_id	integer
date_completed	date
feedback	integer
certificate_number	varchar

linkedin_learning_courses
course_id	integer
course_name	varchar
course_duration	integers
skill_provided	varchar
course_category	varchar

instructors
course_id	integer
instructor_name	varchar

membership_details
membership_type	varchar
amountpaid	integer

skills_recommended
member_recommended_id	integer
skill	varchar
member_recommending_id	integer

groups
group_id	integer
date_started	date
group_name	varchar
created_by_id	integer
group_category	varchar

member_recommendations
member_recommending_id	integer
member_recommended_id	integer

connections
member1_id	integer
member2_id	integer
date_added	date

members
first_name	varchar
last_name	varchar
member_id	integer
age	integer
date_of_birth	date
password	varchar
gender	varchar
email	varchar
membership_type	varchar
card_no	integer
city	varchar
street_no	varchar
pincode	integer
house_no	varchar
working_organization_id	integer
is_recruiter	boolean

posts
post_id	integer
member_id	integer
likes	integer
comments	integer
shares	integer
date_posted	date
post_category	varchar
trending_pt	integer
trending_no	integer

group_members
group_members_id	integer
group_id	integer

currently_working_at
organization_name	varchar
organization_id	integer
description	varchar
location	varchar

job_openings
recruiter_id	integer
city	varchar
experience_required	integer
role	varchar
job_id	integer
country	varchar

likes_post
member_id	integer
post_id	integer

user_skills
member_id	integer
skill_name	varchar

skills_required
skills	varchar
job_id	integer

skill_table
skills	varchar
skill_points	integer
top_skill_no	integer

BCNF justification

1)members

members:first_name,last_name,member_id,age, date_of_birth, password, gender, email,membership_type,card_no,city,street_no,pincode,house_no,working_organization_id, is_recruiter
member_id->{ first_name,last_name,member_id,age, date_of_birth, password, gender, email,membership_type,card_no,city,street_no,pincode,house_no,working_organization_id, is_recruiter}   email->{ first_name,last_name,member_id,age, date_of_birth, password, gender, email,membership_type,card_no,city,street_no,pincode,house_no,working_organization_id, is_recruiter}   card_no->{ first_name,last_name,member_id,age, date_of_birth, password, gender, email,membership_type,card_no,city,street_no,pincode,house_no,working_organization_id, is_recruiter}   Hence, the relation is in BCNF
Candidate Keys:{member_id},{email},{card_no}

2)groups

groups:group_id,data_started,group_name,created_by_name,group_category
group_id->{data_started,group_name,created_by_name,group_category}   Hence,the relation is in Bcnf
Candidate Keys:group_id

3)posts

posts:post_id,member_id,likes,comments,shares,date_posted,post_category
post_id->{member_id,likes,comments,shares,date_posted,post_category)   Hence, the relation is in BCNF
Candidate Keys:post_id

4)member_recommendations

member_recommendations:member_recommending_id,member_recommended_id
Ø
Candidate Keys: { member_recommending_id,member_recommended_id}

5)skills_recommended

skills_recommended: member_recommending_id,member_recommended_id,skill
Ø
Candidate Keys: { member_recommending_id,member_recommended_id,skill}

6) Linkedin_Learning_courses

linkedin_learning_courses: course_id **,** course_name, course_duration, skill_provided, course_category
course_id->{ course_name, course_duration, skill_provided, course_category} Hence,the relation is in BCNF
Candidate Keys:course_id

7) connections

connections: member1_id,member2_id,date_added
{member1_id,member2_id}->date_added Hence, the relation is in BCNF
Candidate Keys:{member1_id,member2_id}

8) likes_posts

Likes_posts:member_id,post_id
Ø
Candidate Keys:{member_id,post_id}

9)currently_working_at

currently_working_at: organization_id,organization_name,description,location
organization_id->{organization_name,description,location} Hence,the relation is in BCNF
Candidate Keys:-organization_id

10)skill_table

skill_table:skills
Ø
Candidate Keys:skills

11) Instructors

Instructors:course_id,instructor_name
∅
Candidate Keys:{course_id,instructor_name}

12)skills_required

skills_required:skills,job_id
∅
Candidate keys:{skills,job_id}

13)member_courses

Member_courses:member_id,course_id,date_completed,feedback,certificate_number
{member_id,course_id}->{date_completed,feedback,certificate_number} Hence, the data is in BCNF
Candidate keys:{member_id,course_id}

14)membership_details

Membership_details:membership_type,amount_paid
Membership_type->amount_paid
Candidate Keys:{membership_type}

15)group_members

group_members:group_members_id,group_id
∅
Candidate Keys:{group_members_id,group_id}

16)job_openings

job_openings:recruiter_id,city,experience_required,role,job_id,country
Job_id->{recruiter_id,city,experience_required,role,country}
Candidate Keys:{job_id}

17)user_skills

User_skills:member_id,skill_name
Ø
Candidate Keys:{member_id,skill_name}