Functional Dependencies

1. ug_roll_number → f_name , l_name , email , branch , phone_number , backlog , CGPA

2. pg_roll_number → f_name , l_name , email , branch , phone_number , backlog , CGPA

3. company_id → name , CGPA_cutoff , permissive_backlogs , role , recruitment_month , CTC , location

4. rep_id → rep_name , company_id , rep_email, rep_phone_number

5. company_id , year → CTC , avg_recruitment

All the functional dependencies satisfy 1st Normal Form , 2nd Normal Form , 3rd Normal Form and BCNF . Therefore , our Normalised Relational Model is as follows :

Normalised Relational Model

Ug

(ug_roll_number, DOB , f_name , l_name , email , branch , phone_number , backlog , CGPA)

Pg

(pg_roll_number, DOB , f_name , l_name , email , branch , phone_number , backlog , CGPA)

Ug_applies

(ug_roll_number , company_id)

Pg_applies

(pg_roll_number , company_id)

Recruiter

(company_id , name , CGPA_cutoff , permissive_backlogs , role , recruitment_month , CTC , location)

Eligible

(company_id , branch)

Representatives

(rep_id , company_id, rep_name , rep_email, rep_phone_number)

Past_record

(company_id , year , CTC , avg_recruitment)