SPO Database

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TABLES

1. Users : **Primary Key** = loginId
   (loginid, password)

2. Permissions : **Primary Key** = loginId
   (loginId, approvedByAdmin, Placed)

3. StudentPersonalInfo : **Primary Key** = RNo
   (RNo, Full Name, Sex, Category , Email(IITK) , Phone No, Local
   Address, Department , Program , Expected_Graduation, CPI, DOB,
   AIR , Email(External), Friends_Number , Permanent_Address)

4. StudentBasicInfo : **Primary Key** = RNo
   (RNo , 10th_pass_year, 10th_board , 10th_perct , 12th_pass_year,
   12th_board , 12th_perct)

5. StudentUnderGradInfo : **Primary Key** = RNo
   (RNo, Degree_Obtained , Under_Grad_Branch , Year_Of_Degree ,
   Percentage)

6. StudentGradInfo : **Primary Key** = RNo
   (RNo, Degree_Obtained , Grad_Branch , Year_Of_Degree ,
   Percentage)

7. StudentPostGradInfo : **Primary Key** = RNo
   (RNo, Degree_Obtained , Grad_Branch , Year_Of_Degree ,
   Percentage)

8. StudentResumeNPhotograph : **Primary Key** = RNo
   (RNo, Resume_link, Photograph_link)

9. Company : **Primary Key** = Cid
   (Cid, CName , Contact Person, Designation, Address, Telephone,
   Fax, Mobile, Email)

10. JobOfferings : **Primary Key** = JPid
    (Cid , JPid)

11. JobProfile : **Primary Key** = JPid
    (JPid, NatureofBusiness, Job Designation, Job Description,
    Medical Requirements, Bond Details, NumberOfOpenings)

12. Eligibilty : **Primary Key** = JPid
    (JPid, B.Tech, Dual Degree, Int M.Sc (5 yr), M.Tech, M.Sc (2
    yr), MBA, M.Des, PhD)

13.   Remuneration : **Primary Key** = JPid
        (JPid, Programme, Basic, HRA, Others, Gross Salary, Take-Home, Total cost to company)

14.   SelectionProcess : **Primary Key** = JPid
        (JPid, Resume-short listing, shortlisting criteria, aptitude test, technical test, Group Discussion, Technical Interview, NumOfRounds, HR Interview)

15.   LastYearData: **Primary Key** = RNo
        (RNo, Full Name, Cid, Department, Program, CPI, Total Cost to Company)

16.   Professor : **Primary Key** = ProfId
        (ProfId, PName, PEmailId, Dept)

RELATIONS:

1. On StudentPersonalInfo and JobProfile:
   ApplicationStatus : **Primary Key** = RNo
   (RNo, JPid, Application Status, Final Acceptance)
   /* Application status is the status from the company and final
   acceptance is from the student. */

2. On StudentPersonalInfo and Professor :
   Supervisors : **Primary Key** = {RNo, ProfId}
   (RNo, ProfId, ProjectName)

3. On StudentPersonalInfo and JobProfile :
   PPO : **Primary Key** = RNo
   (RNo, JPid)

NOTE:

1) With every academic year, old student database is dropped and so is
Job Profile data base, after calculating relevant statistics.

2) Professor and company database is not deleted , only modified!

Normalization Used:

All the tables are in Boyce-Codd Normalization Form.

Features:

1. Login based system.

2. Relevant results displayed for a student.

3. Notice board for announcements and newly added companies.

4. No more application after getting atleast one offer. -- change 'Placed' value in 'Users' table

5. Students can add feedbacks.

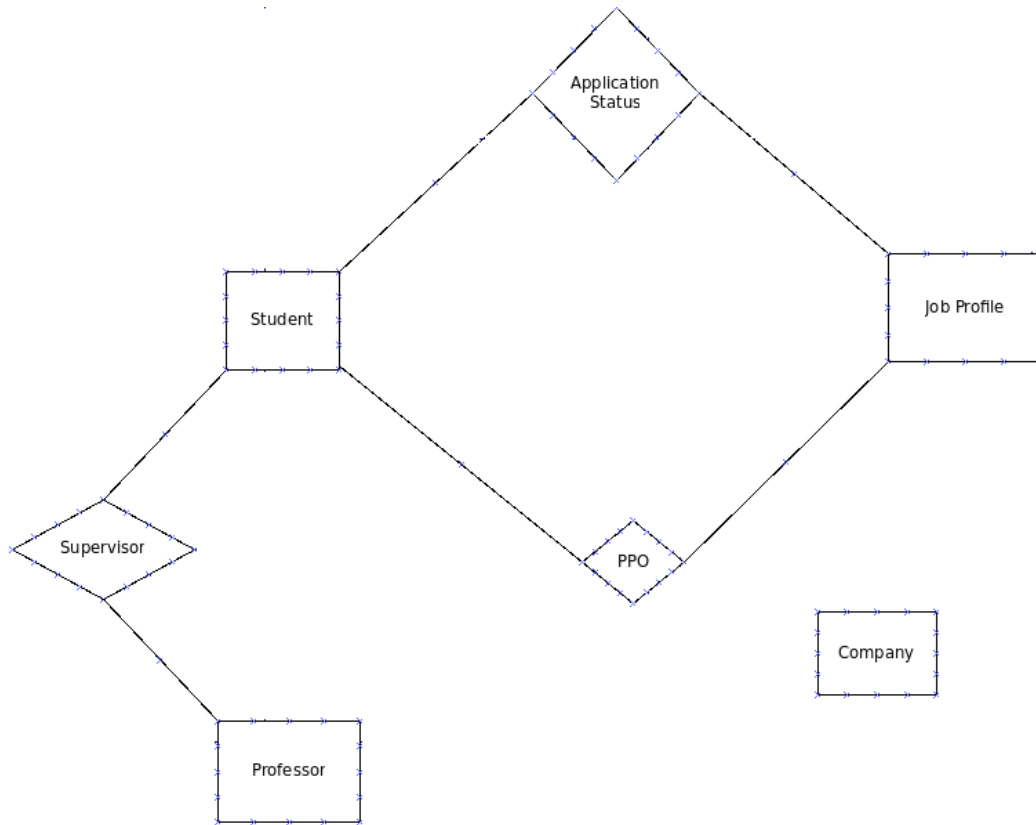6. Blog is open to all registered students.

Possible Queries:

1. List of companies for which a student is eligible to apply.
2. Anyone can view placement statistic grouped on the basis of CPI or Department.
3. Student can see company's profile.

<u>Display:</u>

1. When a user logs in, he can see his profile(personal and academic), list of all companies he has applied for with their statuses and results if declared , notice board of new companies, list of companies he can apply for, can change his password.

2. When admin logs in, he will see a table(Name, login, Roll no, Dept, Program, CPI, Placed(calculated boolean), DOB, 10th, 12th, Category, Mobile, Resume, Deregister(option which can deregister a student))

3. Admin can see the Companies list and can enter new companies' data.

4. Admin has to verify registration of the users.

5. Students can also see the blogs and comment on them.

E-R Diagram

Attributes are not shown.