





Assumption :

1. Assumed that every researcher must belong to an institution.
2. Assumed the institution can have the same name, but the department cannot have the same name.
3. Assumed every institution has at least one researcher.
- 4 Assumed that every publication must belong to a company and a company can have no publication.
5. Assumed Google Scholar only records the link of document objects that has been published.(So, regard document objects as a weak entity)
6. Assumed researchers can have no publications.
7. Assumed a conference event must have a conference paper published.
8. Assumed that a conference paper can be uploaded to Google Scholar before being published in the conference event.
9. Assumed a bookmark can have 0 to many publications.
10. Assumed each kind of publication has at least one record.
11. Assumed publication page/ document size(KB) will not exceed the range of medium int.
12. Assumed URL link length will not exceed 100 chars.
13. Assumed researcher's emails and all the URL are unique.
14. Assumed that co-work can have two or more participants.
15. Assumed version number/ issue number/ edition number and total citation count will not exceed the range of small int.