Suggestion bot for interview skills management

Roll No: 1602-18-737-068

Name: J Gayatri

ABSTRACT:

This project is called "Suggestion Bot for Interview Skills Management". In today's competitive world, there are various skills that one requires in order to be a part of the competing group. With the number of engineers increasing each passing day, companies often look for students with unique and diverse talents when hiring. Everyone has a dream to crack a job in one of the top companies yet are often unaware of the different requirements different companies have. Thus, this suggestion bot is here to save you and your dreams. This bot takes all your skills into consideration and lets you

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choose your dream company. It then provides suggestions related to the areas you need to improve and onto which level you need to improve.

REQUIREMENT ANALYSIS:

LIST OF TABLES:

- User
- Company
- Skills
- Requirements

- Suggestions
- Req_Sugg {Matches – Ternary relation between Skills, Requirements and Suggestions}

LIST OF ATRIBUTES WITH THEIR DOMAIN TYPES:

endUser

- endUser id: euid number(5)
- User name : euname varchar2(5)
- User email id: euemail_id varchar2(5)

Skill

- Skill id: skid number(5)
- Skill name : skname varchar2(20)
- Skill level : skleve varchar2(5)
- User id : dbuid number(5)

Companies

- Company id : cid number(5)
- Company name: cname varchar2(20)
- User id: dbuid number(5)

Requirement:

- Requirement id: rid number(5)
- Requirement name: rname varchar2(20)
- Requirement level: rlevel varchar2(20)
- Company id: cid number(5)

Req_Sugg

- Req_sugg_id : mid number(5)
- skid number(5)
- Rid number(5)
- sname varchar2(20)
- rid number(5)
- rlevel varchar2(20)
- Descriptive attribute: day date

Suggestion

- Suggested skill name: sgskill varchar2(20)

- Suggestion level: sglevel varchar2(20)
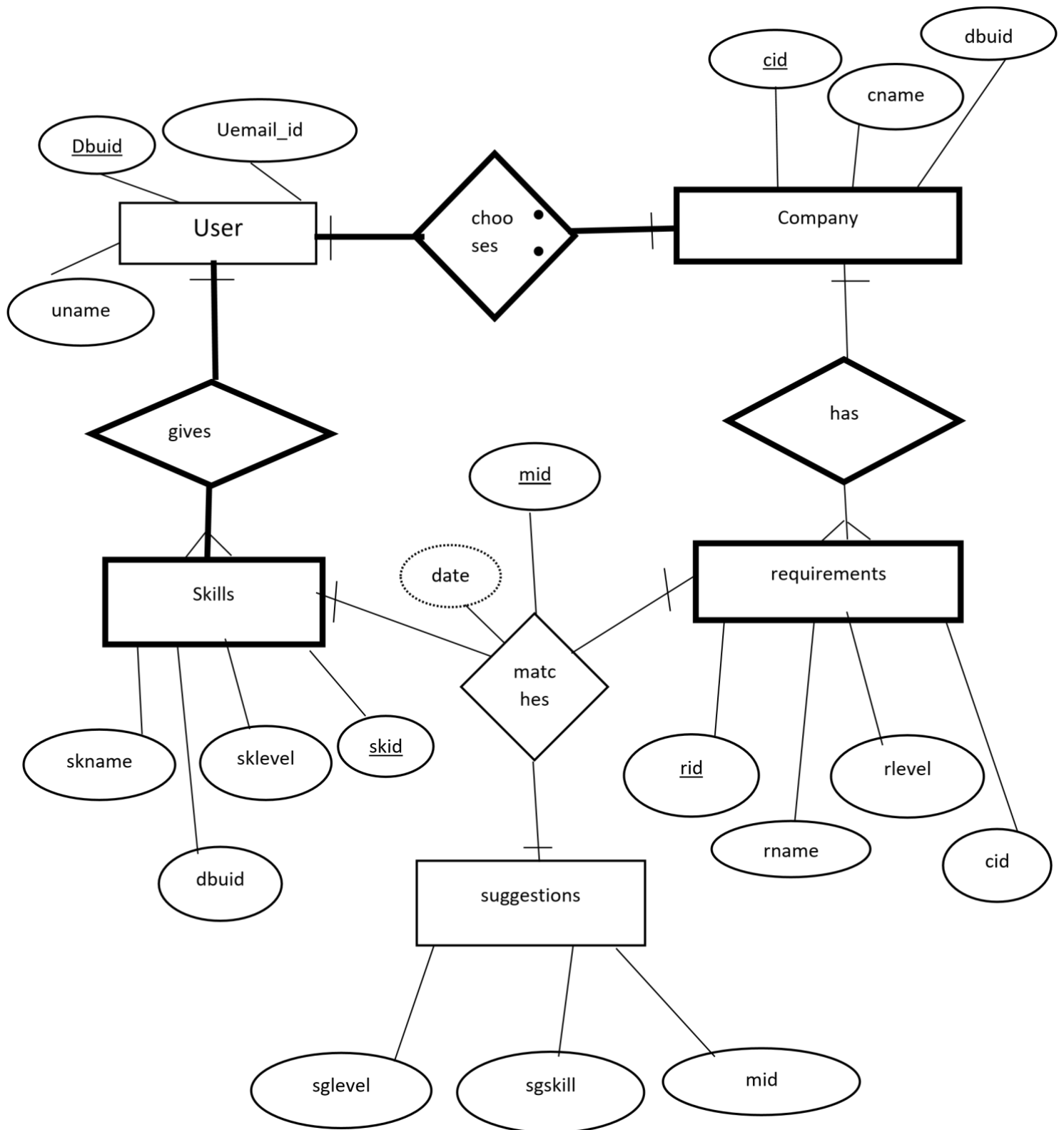- Req_Sugg id: mid number(5)
- User id: dbuid number(5)

DBMS Assignment-1

Title: Suggestion Bot for Interview Skills Management

E-R Diagram

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Mapping Cardinalities and Participation Constraints:

One user can choose one company. Thus, company and user has one to one mapping cardinalities.

One user can give many skills. Thus, skills and user has one to many mapping cardinalities.

Each company/ one company can have any number (many) requirements. Thus, company and requirements has one to many mapping cardinalities.

Each skill has one respective requirement which will be given by a suggestion. Thus, skills, requirements and suggestion have a one to one mapping cardinalities.

Since, user is participating completely, user has total participation, which is indicated by the bold line.

DDL COMMANDS:

SQL> create table endUser(

 2 euid number(5),

 3 euname varchar2(20),

 4 euemail_id varchar2(20));

Table created.

SQL> alter table endUser add primary key(euid);

Table altered.

SQL> create table skill(

 2 skid number(5),

 3 skname varchar2(20),

 4 sklevel varchar2(20));

 5 euid number(5),

 6 primary key(skid));

Table created.

SQL> alter table skill add foreign key (euid) references endUser(euid);

Table altered.

SQL> create table companies(

 2 cid number(5),

 3 cname varchar2(20),

 4 euid number(5),

 5 primary key(cid));

Table created.

SQL> alter table companies add foreign key (euid) references endUser(euid);

Table altered.

SQL> create table requirement(

2 rid number(5),

3 rname varchar2(20),

4 rlevel varchar2(20),

5 cid number(5),

6 primary key(rid));

Table created.

SQL> alter table requirement add foreign key(cid) references companies(cid);

Table altered.

SQL> create table req_sugg(

2 mid number(5),

3 day date,

4 skid number(5),

5 rid number(5),

 7 primary key(mid));

Table created.

SQL> alter table req_sugg add foreign key(skid) references skill(skid);

Table altered.

SQL> alter table req_sugg add foreign key(rid) references requirement(rid);

Table altered.

SQL> create table suggestion(

2 sgskill varchar2(20),

3 sglevel varchar2(20),

4 mid number(5),

5 euid number(5));

Table created.

SQL> alter table suggestion add foreign key(mid) references req_sugg(mid);

Table altered.

SQL> alter table suggestion add foreign key(euid) references endUser(euid);

Table altered.

SQL> desc endUser;

```
 Name                              Null?   Type
 -------------------------------------- -------- --------------------------
 EUID                       NOT NULL NUMBER(5)
 EUNAME                             VARCHAR2(20)
 EUEMAIL_ID                          VARCHAR2(20)
```


SQL> desc skill;

```
 Name                             Null?   Type
 -------------------------------------- -------- --------------------------
 SKID                       NOT NULL NUMBER(5)
 SKNAME                             VARCHAR2(20)
```

SKLEVEL   VARCHAR2(20)

EUID   NUMBER(5)

SQL> desc companies;

Name	Null?	Type
CID	NOT NULL	NUMBER(5)
CNAME		VARCHAR2(20)
EUID		NUMBER(5)

SQL> desc requirement;

Name	Null?	Type
RID	NOT NULL	NUMBER(5)
RNAME		VARCHAR2(20)
RLEVEL		VARCHAR2(20)
CID		NUMBER(5)

SQL> desc req_sugg;

Name	Null?	Type
MID	NOT NULL	NUMBER(5)
DAY		DATE
SKID		NUMBER(5)
RID		NUMBER(5)

SQL> desc suggestion;

Name	Null?	Type

SGSKILL	VARCHAR2(20)
SGLEVEL	VARCHAR2(20)
MID	NUMBER(5)
EUID	NUMBER(5)

DML COMMANDS:

SQL> insert into endUser values(&euid,'&euname','&euemail_id');

Enter value for euid: 101

Enter value for euname: Riya

Enter value for euemail_id: riya1@gmail.com old   1: insert into

endUser values(&euid,'&euname','&euemail_id') new   1: insert

into endUser values(101,'Riya','riya1@gmail.com')

1 row created.

SQL> /

Enter value for euid: 102

Enter value for euname: Sameera

Enter value for euemail_id: sameera2@gmail.com old   1: insert into

endUser values(&euid,'&euname','&euemail_id') new   1: insert into

endUser values(102,'Sameera','sameera2@gmail.com')

1 row created.

SQL> /

Enter value for euid: 103

Enter value for euname: Mihir

Enter value for euemail_id: mihir1345@gmail.com old   1: insert into

endUser values(&euid,'&euname','&euemail_id') new   1: insert into

endUser values(103,'Mihir','mihir1345@gmail.com')

1 row created.

SQL> select * from endUser;

     EUID EUNAME   EUEMAIL_ID

---------- ------------------- -------------------

101 Riya   riya1@gmail.com

102 Sameera   sameera2@gmail.com

103 Mihir   mihir1345@gmail.com

SQL> insert into skill values(&skid,'&skname','&sklevel',&euid);

Enter value for skid: 1

Enter value for skname: Programming

Enter value for sklevel: Beginner Enter value for euid: 101 old

1: insert into skill values(&skid,'&skname','&sklevel',&euid) new

1: insert into skill values(1,'Programming','Beginner',101)

1 row created.

SQL> /

Enter value for skid: 2

Enter value for skname: Aptitude

Enter value for sklevel: Beginner Enter value for euid: 101 old

1: insert into skill values(&skid,'&skname','&sklevel',&euid) new

1: insert into skill values(2,'Aptitude','Beginner',101)

1 row created.

SQL> /

Enter value for skid: 3

Enter value for skname: Programming

Enter value for sklevel: Intermediate Enter value for euid: 102

old   1: insert into skill values(&skid,'&skname','&sklevel',&euid)

new   1: insert into skill

values(3,'Programming','Intermediate',102)

1 row created.

SQL> /

Enter value for skid: 4

Enter value for skname: Communication

Enter value for sklevel: Expert Enter value for euid: 102 old   1:

insert into skill values(&skid,'&skname','&sklevel',&euid) new

1: insert into skill values(4,'Communication','Expert',102)

1 row created.

SQL> /

Enter value for skid: 5

Enter value for skname: Programming

Enter value for sklevel: Intermediate Enter value for euid: 103 old

1: insert into skill values(&skid,'&skname','&sklevel',&euid) new

1: insert into skill values(5,'Programming','Intermediate',103)

1 row created.

SQL> /

Enter value for skid: 6

Enter value for skname: Aptitude

Enter value for sklevel: Beginner Enter value for euid: 103 old

1: insert into skill values(&skid,'&skname','&sklevel',&euid) new

1: insert into skill values(6,'Aptitude','Beginner',103)

1 row created.

SQL> select * from skill;

SKID SKNAME	SKLEVEL	EUID
1 Programming	Beginner	101
2 Aptitude	Beginner	101
3 Programming	Intermediate	102
4 Communication	Expert	102
5 Programming	Intermediate	103
6 Aptitude	Beginner	103

6 rows selected.

SQL> insert into companies values(&cid,'&cname',&euid);

Enter value for cid: 001

Enter value for cname: Oracle Enter value for euid: 101 old

1: insert into companies values(&cid,'&cname',&euid) new

1: insert into companies values(001,'Oracle',101)

1 row created.

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SQL> /

Enter value for cid: 002

Enter value for cname: Microsoft Enter value for euid: 102

old   1: insert into companies values(&cid,'&cname',&euid)

new   1: insert into companies values(002,'Microsoft',102)

1 row created.

SQL> /

Enter value for cid: 003

Enter value for cname: Google Enter value for euid: 103

old   1: insert into companies values(&cid,'&cname',&euid)

new   1: insert into companies values(003,'Google',103)

1 row created.

SQL> select * from companies;

```
    CID CNAME              EUID
---------- -------------------- ----------
1 Oracle             101
2 Microsoft           102
3 Google             103
```

SQL> insert into requirement values(&rid,'&rname','&rlevel',&cid);

Enter value for rid: 1001

Enter value for rname: Programming

Enter value for rlevel: Expert Enter value for cid: 001 old   1: insert into

requirement values(&rid,'&rname','&rlevel',&cid) new   1: insert into

requirement values(1001,'Programming','Expert',001)

1 row created.

SQL> /
Enter value for rid: 1002
Enter value for rname: Aptitude
Enter value for rlevel: Expert Enter value for cid: 001 old   1: insert
into requirement values(&rid,'&rname','&rlevel',&cid) new   1:
insert into requirement values(1002,'Aptitude','Expert',001)

1 row created.

SQL> /
Enter value for rid: 1003
Enter value for rname: Programming
Enter value for rlevel: Expert Enter value for cid: 002 old   1: insert into
requirement values(&rid,'&rname','&rlevel',&cid) new   1: insert into
requirement values(1003,'Programming','Expert',002)

1 row created.

SQL> /
Enter value for rid: 1004
Enter value for rname: Communication
Enter value for rlevel: Expert Enter value for cid: 002 old   1: insert into
requirement values(&rid,'&rname','&rlevel',&cid) new   1: insert into
requirement values(1004,'Communication','Expert',002)

1 row created.

SQL> /

Enter value for rid: 1005

Enter value for rname: Programming

Enter value for rlevel: Expert Enter value for cid: 003 old   1: insert into

requirement values(&rid,'&rname','&rlevel',&cid) new   1: insert into

requirement values(1005,'Programming','Expert',003)

1 row created.

SQL> /

Enter value for rid: 1006

Enter value for rname: Aptitude

Enter value for rlevel: Expert Enter value for cid: 003 old   1: insert

into requirement values(&rid,'&rname','&rlevel',&cid) new   1:

insert into requirement values(1006,'Aptitude','Expert',003)

1 row created.

SQL> select * from requirement;

RID RNAME	RLEVEL	CID
1001 Programming	Expert	1
1002 Aptitude	Expert	1
1003 Programming	Expert	2
1004 Communication	Expert	2
1005 Programming	Expert	3
1006 Aptitude	Expert	3

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6 rows selected.

SQL> insert into req_sugg values(&mid,'&day',&skid,&rid);

Enter value for mid: 01

Enter value for day: 13-Feb-20

Enter value for skid: 1 Enter value for rid: 1001 old   1:

insert into req_sugg values(&mid,'&day',&skid,&rid) new

1: insert into req_sugg values(01,'13-Feb-20',1,1001)

1 row created.

SQL> insert into req_sugg values(&mid,'13-Feb-20',&skid,&rid);

Enter value for mid: 2

Enter value for skid: 2 Enter value for rid: 1002 old   1: insert

into req_sugg values(&mid,'13-Feb-20',&skid,&rid) new   1:

insert into req_sugg values(2,'13-Feb-20',2,1002)

1 row created.

SQL> /

Enter value for mid: 3

Enter value for skid: 3 Enter value for rid: 1003 old   1: insert

into req_sugg values(&mid,'13-Feb-20',&skid,&rid) new   1:

insert into req_sugg values(3,'13-Feb-20',3,1003)

1 row created.

SQL> /

Enter value for mid: 4

Enter value for skid: 4

Enter value for rid: 1004 old   1: insert into req_sugg

values(&mid,'13-Feb-20',&skid,&rid) new   1: insert into

req_sugg values(4,'13-Feb-20',4,1004)

1 row created.

SQL> /

Enter value for mid: 5

Enter value for skid: 5 Enter value for rid: 1005 old   1: insert

into req_sugg values(&mid,'13-Feb-20',&skid,&rid) new   1:

insert into req_sugg values(5,'13-Feb-20',5,1005)

1 row created.

SQL> /

Enter value for mid: 6

Enter value for skid: 6 Enter value for rid: 1006 old   1: insert

into req_sugg values(&mid,'13-Feb-20',&skid,&rid) new   1:

insert into req_sugg values(6,'13-Feb-20',6,1006)

1 row created.

SQL> select * from req_sugg;

    MID DAY   SKID   RID

---------- --------- ---------- ----------

1 13-FEB-20   1   1001

2 13-FEB-20   2   1002

3 13-FEB-20   3   1003

4 13-FEB-20   4   1004

5 13-FEB-20   5   1005   6 13-FEB-20   6   1006

6 rows selected.

SQL> insert into suggestion values('&sgskill','&sglevel',&mid,&euid);

Enter value for sgskill: Programming

Enter value for sglevel: Expert

Enter value for mid: 1 Enter value for euid: 101 old   1: insert into

suggestion values('&sgskill','&sglevel',&mid,&euid) new   1: insert

into suggestion values('Programming','Expert',1,101)

1 row created.

SQL> /

Enter value for sgskill: Aptitude

Enter value for sglevel: Expert

Enter value for mid: 2 Enter value for euid: 101 old   1: insert into

suggestion values('&sgskill','&sglevel',&mid,&euid) new   1: insert

into suggestion values('Aptitude','Expert',2,101)

1 row created.

SQL> /

Enter value for sgskill: Programming

Enter value for sglevel: Expert

Enter value for mid: 3

Enter value for euid: 102

old   1: insert into suggestion values('&sgskill','&sglevel',&mid,&euid) new

1: insert into suggestion values('Programming','Expert',3,102)

1 row created.

SQL> /
Enter value for sgskill: Communication
Enter value for sglevel: Expert
Enter value for mid: 4 Enter value for euid: 102 old   1: insert into
suggestion values('&sgskill','&sglevel',&mid,&euid) new   1: insert
into suggestion values('Aptitude','Expert',4,102)

1 row created.

SQL> /
Enter value for sgskill: Programming
Enter value for sglevel: Expert
Enter value for mid: 5 Enter value for euid: 103 old   1: insert into
suggestion values('&sgskill','&sglevel',&mid,&euid) new   1: insert
into suggestion values('Programming','Expert',5,103)

1 row created.

SQL> /
Enter value for sgskill: Aptitude
Enter value for sglevel: Expert
Enter value for mid: 6
Enter value for euid: 103
old   1: insert into suggestion values('&sgskill','&sglevel',&mid,&euid) new
1: insert into suggestion values('Aptitude','Expert',6,103)

1 row created.

SQL> select * from suggestion;

SGSKILL	SGLEVEL	MID	EUID
--------------------	--------------------	----------	---------- Programming
Expert		1	101
Aptitude	Expert	2	101
Programming	Expert	3	102
Programming	Expert	5	103
Aptitude	Expert	6	103
Communication	Expert	4	102

6 rows selected.