

DBMS ASSIGNMENT-1

TITLE: 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 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 ATTRIBUTES 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)

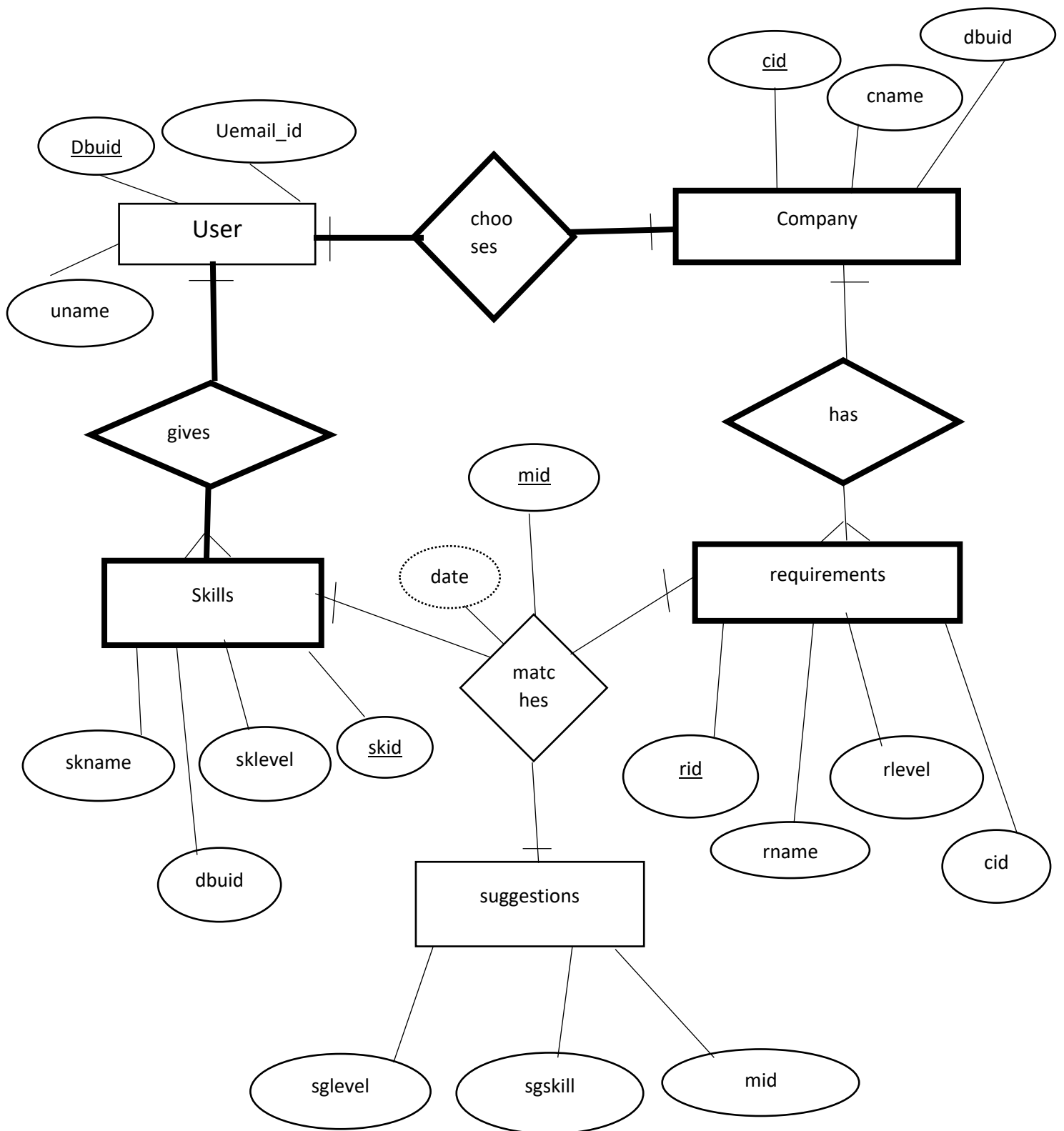
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- Suggestion level: sglevel varchar2(20)
- Req_Sugg id: mid number(5)
- User id: dbuid number(5)

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E-R Diagram

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.

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```
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(
```

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```
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)
UEMAIL_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;
```

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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)

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DML COMMANDS:

```
SQL> insert into endUser values(&eid,&ename,&euemail_id);
```

Enter value for eid: 101

Enter value for ename: Riya

Enter value for euemail_id: riya1@gmail.com

```
old 1: insert into endUser values(&eid,&ename,&euemail_id')
```

```
new 1: insert into endUser values(101,'Riya','riya1@gmail.com')
```

1 row created.

```
SQL> /
```

Enter value for eid: 102

Enter value for ename: Sameera

Enter value for euemail_id: sameera2@gmail.com

```
old 1: insert into endUser values(&eid,&ename,&euemail_id')
```

```
new 1: insert into endUser values(102,'Sameera','sameera2@gmail.com')
```

1 row created.

```
SQL> /
```

Enter value for eid: 103

Enter value for ename: Mihir

Enter value for euemail_id: mihir1345@gmail.com

```
old 1: insert into endUser values(&eid,&ename,&euemail_id')
```

```
new 1: insert into endUser values(103,'Mihir','mihir1345@gmail.com')
```

1 row created.

```
SQL> select * from endUser;
```

EUID	EUNAME	EUEMAIL_ID
------	--------	------------

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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)

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```
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)
```

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```
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.

```
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)
```

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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

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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

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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

6 rows selected.

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

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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

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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

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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

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```
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

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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.