DBMS ASSIGNMENT-I

Topic: Suggestion Bot for Interview Skills Management

Abstract

This database takes the skills of the user and the choice of company from the user. Then comparing the given skills with the required skills of the user. The database provides the user with suggestions to improve their skills and the level to which they should be improved. It takes basic information from the user such as name and email-id and allots each user an id. This id is used to the compare the given skills to the skills required and suggestions will be provided accordingly.

Requirements

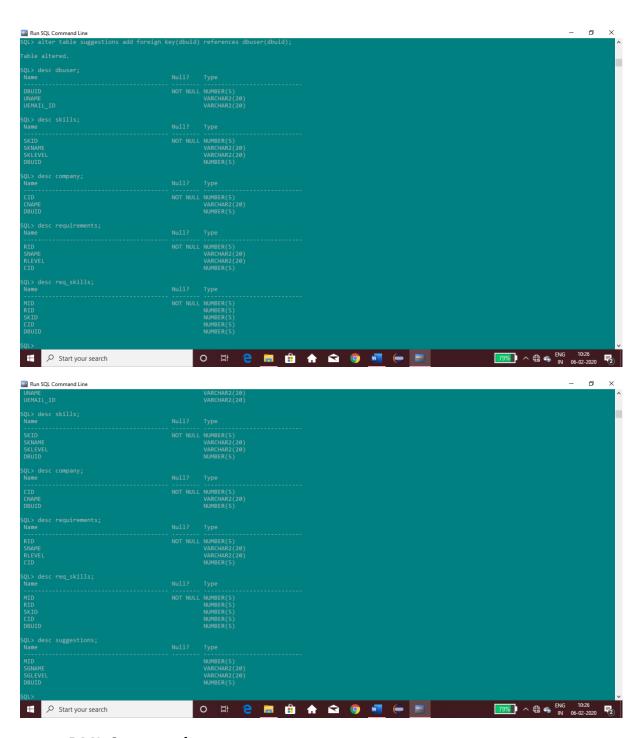
<u>Table</u>	<u>Attributes</u>
User	uid number(5)
	uname varchar2(20)
	uemail_id varchar(20)
Skills	skid number(5)
	skname varchar2(20)
	sklevel varchar2(20)
	usid number(5) [foreign key]
Company	cid number(5)
	cname varchar2(20)
	uid number(5) (foreign key)
Requirements	rid number(5)
	rname varchar2(20)
	rlevel varchar2(20)
	cid number(5) [foreign key]
Suggestions	sgskill varchar2(20)
	sglevel varchar2(20)
	mid number(5) (foreign key)
Req_skills	mid number(5)
	sid number(5)
	slevel varchar2(20)
	sname varchar2(20)
	rid number(5)
	rlevel varchar2(20) (foreign keys)

Creation of tables with primary key constraint:

```
1) create table dbuser (
dbuid number(5), uname varchar2(20), uemail id varchar2(20));
Alter table dbuser add constraint dbuid primary key (dbuid);
2) create table skills (
skid number(5), skname varchar2(20), sklevel varchar2(20), dbuid number(5),
primary key(skid) );
3) create table company (
cid number(5), cname varchar2(20), dbuid number(5), primary key(cid));
4) create table requirements (
Rid number(5), rname varchar2(20), rlevel varchar2(20), cid number(5),
primary key(rid) );
5) create table suggestions (
Sgskill varchar2(20), sglevel varchar2(20));
6) create table reg skills (
mid number(5), sid number(5), cid number(5), rid number(5), dbuid number(5),
primary key(mid));
```

Altering table to add other constraints like foreign key:

alter table skills add foreign key (dbuid) references dbuser;
alter table company add foreign key(dbuid) references dbuser;
alter table requirements add foreign key(cid) references company;
alter table req_skills add foreign key(sid) references skills;
alter table req_skills add foreign key (rid) references requirements;
alter table req_skills add foreign key(cid) references company;
alter table req_skills add foreign key(dbuid) references dbuser;
alter table suggestions add foreign key (mid) references req_skills;
alter table suggestions add foreign key (dbuid) references dbuser(dbuid);



DML Commands:

1. User Table

Uid	Uname	uemail_id
101	Riya	Riya1@gmail.com
102	Sameera	Sameera2@gmail.com
103	Mihir	Mihir1345@gmail.com
104	Amit	samit@gmail.com
105	Jessica	jessyb@gmail.com

2. Skills Table

Uid	Skid	sname	Slevel
101	1	programming	Beginner
101	2	aptitude	Beginner
102	3	programming	Intermediate
102	4	communication	Expert
103	5	programming	Intermediate
103	6	Aptitude	Beginner
104	7	communication	Beginner
104	8	programming	Intermediate
105	9	communication	Beginner
105	10	aptitude	Intermediate

3. Companies Table:

Uid	cid	Cname	
101	001	Oracle	
102	002	Microsoft	
103	005	Google	
104	003	Zenser Technologies	
105	004	Deloitte	

4. Requirements Table

cid	Rid	rname	Rlevel
001	1001	Programming	Expert
001	1002	Aptitude	Expert
002	1003	Programming	Expert
002	1004	Communication	Expert
003	1005	Programming	Expert
003	1006	Aptitude	Expert
004	1007	Communication	Intermediate
004	1008	Programming	Intermediate
005	1009	Communication	Expert
005	1010	aptitude	Intermediate

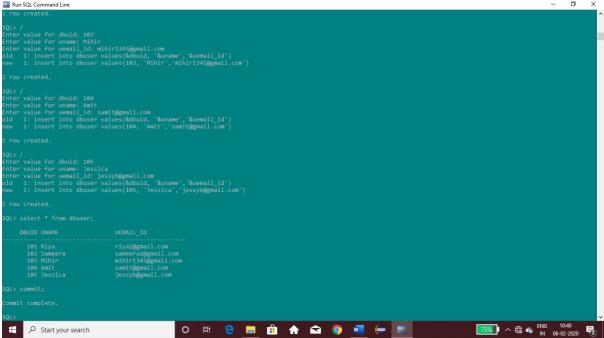
5. Req_sugg Table

Mid	sid	cid	rid	Dbuid
01	1	001	1001	101
02	2	001	1002	101
03	3	002	1003	102
04	4	002	1004	102

05	5	005	1005	103
06	6	005	1006	103
07	7	003	1007	104
08	8	003	1008	104
09	9	004	1009	105
10	10	004	1010	105

6. Suggestions Table

Mid	Sgskill	sglevel	Dbuid
01	Programming	Expert	101
02	Aptitude	Expert	101
03	Programming	Expert	102
04	Communication	Expert	102
05	Programming	Expert	103
06	Aptitude	Expert	103
07	Communication	Intermediate	104
08	Programming	Intermediate	104
09	Communication	Expert	105
10	Aptitude	intermediate	105



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Enter value for skname: aptitude

Enter value for sklevel: intermediate
Enter value for obuid: 195

Paold 1: insert into skills values (&skid, '&skname', '&sklevel', &dbuid)

new 1: insert into skills values (10, 'aptitude', 'intermediate', 105)

1 row created.

SQL> select * from skills;

SKID SKNAME SKLEVEL DBUID

1 programming beginner 101
2 aptitude beginner 101
3 programming intermediate 102
4 communication expert 102
5 programming intermediate 103
6 aptitude beginner 103
7 communication beginner 104
8 programming intermediate 104
9 communication beginner 105
10 aptitude intermediate 105

10 rows selected.

SQL> commit;

Commit complete.
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