

HACKATHON CONTEST

Abstract

A hackathon is basically an event, typically lasting several days, in which a large number of people meet to engage in collaborative computer programming in order to solve a real time problem or a simulated problem or a case study usually by building web and mobile services. Now, to facilitate hackathons, one must ensure the smooth management of the event such as gathering the solutions and validating the strength of the solutions provided by the students. Finally, the best possible solution is awarded a prize by the experts/panel of judges. Also the teams must be permitted to participate in the event by their respective colleges/universities. At the end of the hackathon, all the participants are given a certificate of participation. So, this project basically deals with managing a hackathon efficiently. It's implemented using SQL(back end) and JAVA(front end).

REQUIREMENT ANALYSIS

List of tables:

HACKATHON

STUDENTS

COLLEGES

EXPERT

RESULTS

PARTICIPATE

STUDY

PRESENTS

REWARDS

List of attributes with their domain types:

HACKATHON :

Team id:team_id -Number()

duration:duration-varchar()

type-varchar(20)

STUDENTS:

student id: sid -number(10)

student name: sname-varchar(20)

branch-varchar(15)

COLLEGES:

college id: cid-number(5)

college address-varchar(5)

college name: cname -varchar(20)

EXPERT :

ROLL NO:1602-18-737-087

NAME: T PAVAN KUMAR

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expert id: eid-number(5)

expert name=ename-varchar(15)

qualification-varchar(30)

RESULTS :

student id:sid -number(5)

score-number(20)

certificate_status-varchar2(20)

Date: day-date

PARTICIPATE :

Date : day-date

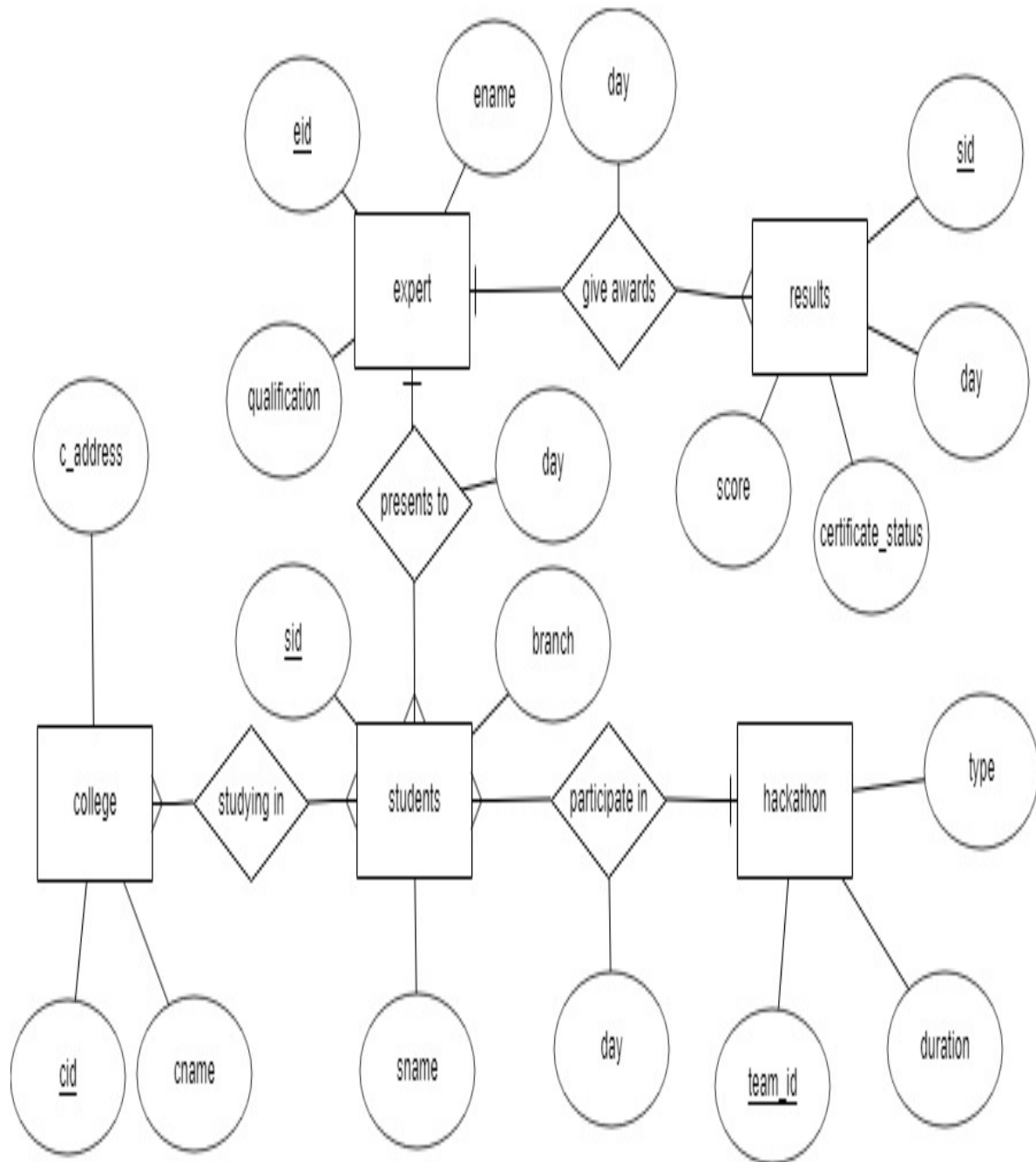
PRESENTS:

Date : day-date

REWARDS:

Date : day-date

ER DIAGRAM



Mapping Cardinalities and Participation Constraints:

A hackathon can conduct a one contest for many students can be come from many colleges so one to many mapping cardinalities between hackathon and students.

A many students can come from many colleges.so, many to many mapping cardinalities between students and colleges.

A many students can present there presentation to an one expert.so manyto one mapping cardinality between students and expert.

An one expert can give rewards on particular day relesing many results so one to many mapping cardinality between expert and results.

DDL COMMADS:

SQL> create table hackathon(

- 2 team_id number(10) primary key,
- 3 duration varchar2(20),
- 4 type char(50));

Table created.

SQL> create table students(

- 2 sid number(5) primary key,
- 3 sname varchar2(20),
- 4 branch varchar2(20));

Table created.

SQL> create table colleges(

- 2 c_address varchar2(20),
- 3 cname varchar2(20),
- 4 cid number(10)) primary key;

Table created.

SQL> create table expert(

- 2 eid number(10) primary key,
- 3 ename varchar2(20),
- 4 qualification varchar2(20));

Table created.

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SQL> create table results(

- 2 sid number(10) primary key,
- 3 day date,
- 4 certificate_status varchar2(10),
- 5 score number(20));

Table created.

SQL> ed

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- 1 create table participate(
- 2 team_id number(10),
- 3 sid number(10),
- 4 primary key(team_id,sid),
- 5 foreign key(team_id)references hackathon(team_id),
- 6* foreign key(sid)references students(sid))

SQL> /

Table created.

SQL> create table study(

- 2 sid number(10),
- 3 cid number(10),
- 4 primary key(sid,cid),
- 5 foreign key(sid)references students(sid),
- 6 foreign key(cid)references colleges(cid));

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Table created.

```
SQL> create table presents(  
2   sid number(10),  
3   eid number(10),  
4   primary key(sid,eid),  
5   foreign key(sid)references students(sid),  
6   foreign key(eid)references expert(eid));
```

Table created.

```
SQL> alter table participate add(day date);
```

Table altered.

```
SQL> alter table presents add(day date);
```

Table altered.

```
SQL> create table rewards(  
1   day date,  
2   eid number(10),  
3   sid number(10),  
4   primary key(eid,sid),  
5   foreign key(eid)refereces expert(eid),  
6   foreign key(sid)references results(sid));
```

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Table created.

SQL> select * from tab;

TNAME	TABTYPE	CLUSTERID
COLLEGES	TABLE	
EXPERT	TABLE	
HACKATHON	TABLE	
PARTICIPATE	TABLE	
PRESENTS	TABLE	
RESULTS	TABLE	
REWARDS	TABLE	
STUDENTS	TABLE	
STUDY	TABLE	

9 rows selected.

SQL> desc hackathon;

Name	Null?	Type
TEAM_ID	NOT NULL	NUMBER(10)
DURATION		VARCHAR2(20)
TYPE		CHAR(50)

SQL> desc students;

Name	Null?	Type
------	-------	------

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```
-----  
SID                                NOT NULL NUMBER(5)  
SNAME                             VARCHAR2(20)  
BRANCH                             VARCHAR2(20)
```

SQL> desc colleges;

```
Name                                Null?    Type  
-----  
C_ADDRESS                           VARCHAR2(20)  
CNAME                               VARCHAR2(20)  
CID                                NOT NULL NUMBER(10)
```

SQL> desc expert;

```
Name                                Null?    Type  
-----  
EID                                NOT NULL NUMBER(10)  
ENAME                              VARCHAR2(20)  
QUALIFICATION                       VARCHAR2(20)
```

SQL> desc rewards;

```
Name                                Null?    Type  
-----  
EID                                NOT NULL NUMBER(10)  
SID                                NOT NULL NUMBER(10)  
DAY                                DATE
```

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SQL> desc participate;

Name	Null?	Type

TEAM_ID	NOT NULL	NUMBER(10)
SID	NOT NULL	NUMBER(10)
DAY		DATE

SQL> desc study;

Name	Null?	Type

SID	NOT NULL	NUMBER(10)
CID	NOT NULL	NUMBER(10)

SQL> desc presents;

Name	Null?	Type

SID	NOT NULL	NUMBER(10)
EID	NOT NULL	NUMBER(10)
DAY		DATE

SQL> desc results;

Name	Null?	Type

SID	NOT NULL	NUMBER(10)

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DAY	DATE
in CERTIFICATE_STATUS	VARCHAR2(10)
SCORE	NUMBER(20)

DML COMMANDS:-

```
SQL> insert into hackathon(&team_id,&type,&duration','&type');
```

Enter value for team_id: 086

Enter value for duration: 1:30

Enter value for type: s/w

```
old    1: insert into hackathon values(&team_id,&duration','&type')
```

```
new    1: insert into hackathon values(086,'1:30','s/w')
```

1 row created.

```
SQL> /
```

Enter value for team_id: 087

Enter value for duration: 2:00

Enter value for type: s/w

```
old    1: insert into hackathon values(&team_id,&duration','&type')
```

```
new    1: insert into hackathon values(087,'2:00','s/w')
```

&

1 row created.

```
SQL> /
```

Enter value for team_id: 088

Enter value for duration: 2:30

Enter value for type: h/w

```
old    1: insert into hackathon values(&team_id,&duration','&type')
```

```
new    1: insert into hackathon values(088,'2:30','h/w')
```

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1 row created.

SQL> /

Enter value for team_id: 090

Enter value for duration: 3:00

Enter value for type: h/w

old 1: insert into hackathon values(&team_id,&duration,&type')

new 1: insert into hackathon values(090,'3:00','h/w')

1 row created.

SQL> select * from hackathon;

TEAM_ID	DURATION	TYPE
86	1:30	s/w
87	2:00	s/w
88	2:30	h/w

TEAM_ID DURATION

TYPE

90 3:00

h/w

```
SQL> insert into students values(&sid,&sname,&branch);
```

Enter value for sid: 086

Enter value for sname: omkar

Enter value for branch: it

```
old    1: insert into students values(&sid,&sname,&branch')
```

```
new    1: insert into students values(086,'omkar','it')
```

1 row created.

```
SQL> /
```

Enter value for sid: 087

Enter value for sname: pavan

Enter value for branch: it

```
old    1: insert into students values(&sid,&sname,&branch')
```

```
new    1: insert into students values(087,'pavan','it')
```

1 row created.

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SQL> /

Enter value for sid: 088

Enter value for sname: pradeep

Enter value for branch: it

old 1: insert into students values(&sid,&sname,&branch')

new 1: insert into students values(088,'pradeep','it')

1 row created.

SQL> /

Enter value for sid: 090

Enter value for sname: pranay

Enter value for branch: it

old 1: insert into students values(&sid,&sname,&branch')

new 1: insert into students values(090,'pranay','it')

1 row created.

SQL> select * from students;

SID	SNAME	BRANCH
86	omkar	it
87	pavan	it

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88 pradeep it

90 pranay it

```
SQL> insert into colleges values(&cid,&cname','&c_address');
```

Enter value for cid: 1602

Enter value for cname: vasavi

Enter value for c_address: 1145

```
old 1: insert into colleges values(&cid,&cname','&c_address)
```

```
new 1: insert into colleges values(1602,'vasavi',1145)
```

1 row created.

```
SQL> /
```

Enter value for cid: 911

Enter value for cname: vjit

Enter value for c_address: 4878

```
old 1: insert into colleges values(&cid,&cname','&c_address)
```

```
new 1: insert into colleges values(911,'vjit',4878)
```

1 row created.

```
SQL> /
```

Enter value for cid: 1601

Enter value for cname: cbit

Enter value for c_address: 4651

```
old 1: insert into colleges values(&cid,&cname','&c_address)
```

```
new 1: insert into colleges values(1601,'cbit',4651)
```

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1 row created.

SQL> /

Enter value for cid: 912

Enter value for cname: jbit

Enter value for c_address: 2154

old 1: insert into colleges values(&cid,&cname,&c_address)

new 1: insert into colleges values(912,'jbit',2154)

1 row created.

SQL> select *from colleges;

C_ADDRESS	CNAME	CID
1602	vasavi	1145
911	vjit	4878
1601	cbit	4651
912	jbit	2154

SQL> insert into expert values(&eid,&ename,&qualification);

Enter value for eid: 38

Enter value for ename: brutus

Enter value for qualification: phd

old 1: insert into expert values(&eid,&ename','&qualification')

new 1: insert into expert values(38,'brutus','phd')

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1 row created.

SQL> select * from expert;

EID	ENAME	QUALIFICATION
38	brutus	phd

SQL> insert into results values(&sid,'03-feb-2020','&certificate_status',&score);

Enter value for sid: 086

Enter value for certificate_status: pass

Enter value for score: 95

old 1: insert into results values(&sid,'03-feb-2020','&certificate_status',&score)

new 1: insert into results values(086,'03-feb-2020','pass',95)

1 row created.

SQL> /

Enter value for sid: 087

Enter value for certificate_status: pass

Enter value for score: 85

old 1: insert into results values(&sid,'03-feb-2020','&certificate_status',&score)

new 1: insert into results values(087,'03-feb-2020','pass',85)

1 row created.

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SQL> /

Enter value for sid: 088

Enter value for certificate_status: pass

Enter value for score: 99

old 1: insert into results values(&sid,'03-feb-2020','&certificate_status',&score)

new 1: insert into results values(088,'03-feb-2020','pass',99)

1 row created.

SQL> /

Enter value for sid: 090

Enter value for certificate_status: pass

Enter value for score: 89

old 1: insert into results values(&sid,'03-feb-2020','&certificate_status',&score)

new 1: insert into results values(090,'03-feb-2020','pass',89)

1 row created.

SQL> select * from results;

SID	DAY	CERTIFICAT	SCORE
86	03-FEB-20	pass	95
87	03-FEB-20	pass	85
88	03-FEB-20	pass	99

```
SQL> insert into participate values(&team_id,&sid,'&day');
```

Enter value for team_id: 086

Enter value for sid: 86

Enter value for day: 13-feb-2020

```
old    1: insert into participate values(&team_id,&sid,'&day')
```

```
new    1: insert into participate values(086,86,'13-feb-2020')
```

1 row created.

```
SQL> /
```

Enter value for team_id: 087

Enter value for sid: 87

Enter value for day: 13-feb-2020

```
old    1: insert into participate values(&team_id,&sid,'&day')
```

```
new    1: insert into participate values(087,87,'13-feb-2020')
```

1 row created.

```
SQL> /
```

Enter value for team_id: 088

Enter value for sid: 88

Enter value for day: 13-feb-2020

```
old    1: insert into participate values(&team_id,&sid,'&day')
```

```
new    1: insert into participate values(088,88,'13-feb-2020')
```

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1 row created.

SQL> select * from participate;

TEAM_ID	SID DAY
86	86 13-FEB-20
87	87 13-FEB-20
88	88 13-FEB-20

SQL> insert into study values(&sid,&cid);

Enter value for sid: 86

Enter value for cid: 1145

old 1: insert into study values(&sid,&cid)

new 1: insert into study values(86,1145)

1 row created.

SQL> /

Enter value for sid: 87

Enter value for cid: 4878

old 1: insert into study values(&sid,&cid)

new 1: insert into study values(87,4878)

1 row created.

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SQL> /

Enter value for sid: 88

Enter value for cid: 4651

old 1: insert into study values(&sid,&cid)

new 1: insert into study values(88,4651)

1 row created.

SQL> select * from study;

SID	CID
86	1145
87	4878
88	4651

SQL> insert into presents values(&sid,&eid,'13-feb-2020');

Enter value for sid: 86

Enter value for eid: 38

old 1: insert into presents values(&sid,&eid,'13-feb-2020')

new 1: insert into presents values(86,38,'13-feb-2020')

1 row created.

SQL> /

Enter value for sid: 87

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Enter value for eid: 38

old 1: insert into presents values(&sid,&eid,'13-feb-2020')

new 1: insert into presents values(87,38,'13-feb-2020')

1 row created.

SQL> /

Enter value for sid: 88

Enter value for eid: 38

old 1: insert into presents values(&sid,&eid,'13-feb-2020')

new 1: insert into presents values(88,38,'13-feb-2020')

1 row created.

SQL> select * from presents;

SID	EID DAY
86	38 13-FEB-20
87	38 13-FEB-20
88	38 13-FEB-20

SQL> insert into rewards values(38,&sid,'13-feb-2020');

Enter value for sid: 86

old 1: insert into rewards values(38,&sid,'13-feb-2020')

new 1: insert into rewards values(38,86,'13-feb-2020')

DBMS ASSIGNMENT I
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1 row created.

SQL> /

Enter value for sid: 87

old 1: insert into rewards values(38,&sid,'13-feb-2020')

new 1: insert into rewards values(38,87,'13-feb-2020')

1 row created.

SQL> /

Enter value for sid: 88

old 1: insert into rewards values(38,&sid,'13-feb-2020')

new 1: insert into rewards values(38,88,'13-feb-2020')

1 row created.

SQL> select * from rewards;

EID	SID DAY
38	86 13-FEB-20
38	87 13-FEB-20
38	88 13-FEB-20

