A Project Report On Hackathon Management System

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CERTIFICATE

This is to certify that the project entitled "Hackathon Management system" is a bonafide report of the work carried out by

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1) SYSTEM OVERVIEW

A) System Name: Hackathon Manager

Hackathons are events where individuals or teams collaborate intensively on software or hardware projects over a defined period, often leading to innovative solutions and prototypes.

<u>Purpose</u>: To streamline the organization and management of hackathon events, including participant registration, team formation, judge assignment, prize distribution, and sponsor management.

Key Features:

Participant Management:

User profiles: Store basic information about participants, including name, email, and hackathon history.

Team formation: Allow participants to create teams, invite others, and manage team rosters.

Registration: Handle the registration process, including collecting participant details and hackathon preferences.

Judge Management:

Judge profiles: Store information about judges, including expertise and availability.

Assignment: Automatically assign judges to hackathon events based on their expertise and availability.

Feedback collection: Facilitate the collection of judge feedback on participants and teams.

Prize Management:

Prize details: Store information about available prizes, including category, sponsor, and prize value.

Distribution: Track prize assignments and ensure all teams receive their appropriate prizes.

Sponsor Management:

Sponsor profiles: Store information about sponsors, including company name, website, and sponsorship level.

Sponsorship tracking: Track sponsor involvement, including logos, booth assignments, and promotional materials.

Event Management:

Schedule: Manage the event schedule, including hackathon start and end times, judging windows, and prize distribution times.

Communication: Send email notifications to participants, judges, sponsors, and organizers about important event details.

Registration: Handle on-site registration for walk-in participants.

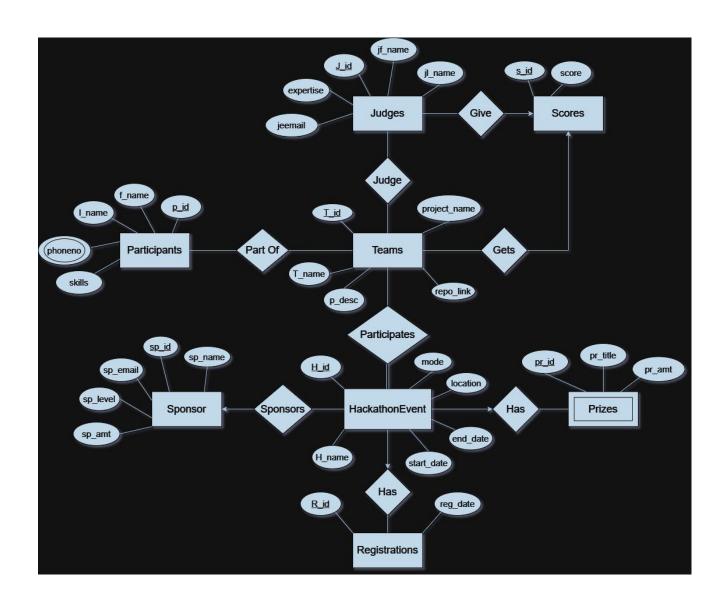
<u>Scalability</u>: The system is designed to scale horizontally and handle large-scale hackathon events with thousands of participants, judges, and sponsors.

B) ADVANTAGES OF THE PROPOSED SYSTEM

- 1) Efficiency: Automates many administrative tasks, saving organizers time and effort. Judges can easily assign scores, and sponsors can track their involvement in real-time.
- 2) Centralized Management: Keeps all hackathon details in one place, making it easy for organizers to oversee the event and communicate with participants, judges, and sponsors.
- 3) Improved Judge Experience: Streamlines the judge assignment and feedback collection process, ensuring fair evaluations. Judges can focus on providing constructive feedback rather than administrative tasks.
- 4) Scalability: Designed to handle large-scale hackathon events with thousands of participants, judges, and sponsors, making it a flexible solution for events of all sizes.
- 5) User-Friendly Interface: Clear workflows and an intuitive interface make it easy for organizers, judges, sponsors, and participants to use the system.
- 6) Security: Robust security measures protect sensitive data like participant information and judge feedback, building trust with users.

Overall, Hackathon Manager aims to significantly reduce the administrative burden of organizing hackathon events, allowing organizers to focus more on creating a rewarding and inclusive experience for participants. By automating many of the logistical details, the system enables a smoother, more efficient event management process.

2) ENTITY-RELATIONSHIP MODEL



3) Data Dictionary

3.1 Teams

```
postgres=# \d teams
                         Table "public.teams"
       Column
                                                                  Modifiers
                                         Type
  t_id
                          character varying(3)
                                                                   not null
                          character varying(25) character varying(25)
  t_name
                                                                   not null
  project_name
                                                                   not null
  repo_link
                          character varying(300)
                                                                   not null
                          character varying(200)
  p_desc
 Indexes:
"teams_pkey" PRIMARY KEY, btree (t_id)
Referenced by:
      TABLE "participants" CONSTRAINT "participants_t_id_fkey" FOREIGN KEY (t_id) REFERENCES teams(t_id)
TABLE "registration" CONSTRAINT "registration_t_id_fkey" FOREIGN KEY (t_id) REFERENCES teams(t_id)
TABLE "scores" CONSTRAINT "scores_t_id_fkey" FOREIGN KEY (t_id) REFERENCES teams(t_id)
```

3.2 HackathonEvent

```
postgres=# \d HackathonEvent
              Table "public.hackathonevent"
    Column
                                                        Modifiers
                                 Type
                     character varying(3)
                                                         not null
                     character varying(25)
                                                         not null
 h_name
 start_date
                     date
                                                         not null
 end_date
                     date
                                                         not null
  location
                     character varying(50)
                     character varying(20)
                                                        not null
Indexes:
      "hackathonevent_pkey" PRIMARY KEY, btree (h_id)
      TABLE "prizes" CONSTRAINT "prizes_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
TABLE "registration" CONSTRAINT "registration_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
TABLE "scores" CONSTRAINT "scores_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
```

3.3 Participants

```
postgres=# \d participants
          Table "public.participants"
 Column
                                       Modifiers
                      Type
 p_id
f_name
            character varying(3)
character varying(25)
                                        not null
            character varying(25)
numeric(10,0)
 l_name
 phoneno
 skills
            character varying(100)
            character varying(3)
 t id
Indexes:
    "participants_pkey" PRIMARY KEY, btree (p_id)
Foreign-key constraints:
    "participants_t_id_fkey" FOREIGN KEY (t_id) REFERENCES teams(t_id)
    TABLE "registration" CONSTRAINT "registration_p_id_fkey" FOREIGN KEY (p_id) REFERENCES participants(p_id)
```

3.4 Registration

```
postgres=# \d Registration
             Table "public.registration"
  Column
                                                 Modifiers
                            Type
 r_id
                 character varying(3)
                                                  not null
                                                  not null
 reg_date
 p_id
                 character varying(3)
 t_id
                 character varying(3)
                 character varying(3)
 h_id
Indexes:
     "registration_pkey" PRIMARY KEY, btree (r_id)
Foreign-key constraints:
     "registration_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
"registration_p_id_fkey" FOREIGN KEY (p_id) REFERENCES participants(p_id)
"registration_t_id_fkey" FOREIGN KEY (t_id) REFERENCES teams(t_id)
```

3.5 Judges

```
postgres=# \d Judges
               Table "public.judges"
  Column
                                        Modifiers
                         Type
 j_id
jf_name
jl_name
              character varying(3)
character varying(25)
                                           not null
                                           not null
              character varying(25)
                                           not null
 expertize
              character varying(100)
              character varying(50)
 jemail
Indexes:
     "judges_pkey" PRIMARY KEY, btree (j_id)
Referenced by:
    TABLE "scores" CONSTRAINT "scores_j_id_fkey" FOREIGN KEY (j_id) REFERENCES judges(j_id)
```

3.6 Prizes

```
postgres=# \d Prizes
              Table "public.prizes"
                                          | Modifiers
  Column
                        Type
 pr_id
              character varying(3)
                                            not null
 pr_title
              character varying(25)
                                            not null
 pr_amt
              numeric(6,0)
                                            not null
 sp_id
              character varying(3)
 h_id
              character varying(3)
Indexes:
     "prizes_pkey" PRIMARY KEY, btree (pr_id)
Foreign-key constraints:
     "prizes_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
"prizes_sp_id_fkey" FOREIGN KEY (sp_id) REFERENCES sponsor(sp_id)
```

3.7 Sponsor

```
postgres=#
            \d Sponsor
             Table "public.sponsor"
                                      Modifiers
  Column
                      Type
 sp_id
             character varying(3)
                                        not null
                                        not null
 sp_name
             character varying(50)
character varying(50)
 sp_email
             character varying(10)
 sp_level
                                        not null
sp_amt
h_id
             numeric(6,0)
character varying(3)
Indexes:
    "sponsor_pkey" PRIMARY KEY, btree (sp_id)
Foreign-key constraints:
    "sponsor_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
Referenced by:

TABLE "prizes" CONSTRAINT "prizes_sp_id_fkey" FOREIGN KEY (sp_id) REFERENCES sponsor(sp_id)
```

3.8 Scores

```
postgres=# \d Scores
               Table "public.scores"
 Column
                                             Modifiers
                         Type
 s_id
              character varying(3)
                                              not null
              character varying(3)
 h_id
              character varying(3)
 t_id
              character varying(3)
 j_id
             numeric(2,1)
 score
Indexes:
     "scores_pkey" PRIMARY KEY, btree (s_id)
Foreign-key constraints:
     "scores_h_id_fkey" FOREIGN KEY (h_id) REFERENCES hackathonevent(h_id)
"scores_j_id_fkey" FOREIGN KEY (j_id) REFERENCES judges(j_id)
"scores_t_id_fkey" FOREIGN KEY (t_id) REFERENCES teams(t_id)
```

4) DATA IMPLEMENTATION

4.1) SCHEMA

4.1.1 Teams

CREATE TABLE teams (T_id varchar(3) PRIMARY KEY, T_name varchar(25) NOT NULL, project_name varchar(25) NOT NULL, repo_link varchar(300) NOT NULL, p_desc varchar(200));

4.1.2 HackathonEvent

CREATE TABLE HackathonEvent (H_id varchar(3) PRIMARY KEYy, H_name varchar(25) NOT NULL, start_date date NOT NULL, end_date date NOT NULL, location varchar(50), mode varchar(20) NOT NULL);

4.1.3 participants

CREATE TABLE participants(
p_id varchar(3) PRIMARY KEY,
f_name varchar(25),
l_name varchar(25),
phoneno numeric(10),
skills varchar(100),
T id varchar(3) REFERENCES teams(T id));

4.1.4 Registration

CREATE TABLE Registration(
R_id varchar(3) PRIMARY KEY,
reg_date date NOT NULL,
p_id varchar(3) REFERENCES participants(p_id),

T_id varchar(3) REFERENCES teams(T_id),H id varchar(3) REFERENCES HackathonEvent(H id));

4.1.5 Judges

CREATE TABLE Judges(J_id varchar(3) PRIMARY KEY, jf_name varchar(25) NOT NULL, jl name varchar(25) NOT NULL, Expertize varchar(100));

4.1.6 Prizes

```
CREATE Prizes(
pr_id varchar(3) PRIMARY KEY,
pr_title varchar(25) NOT NULL,
pr_amt numeric(6) NOT NULL,
Sp_id varchar(3) REFERENCES Sponsor(Sp_id),
H id varchar(3) REFERENCES HackathonEvent(H id));
```

4.1.7 Sponsor

```
CREATE TABLE Sponsor(
Sp_id varchar(3) PRIMARY KEY,
sp_name varchar(50) NOT NULL,
sp_email varchar(50) NOT NULL,
sp_level varchar(10) NOT NULL,
sp_amt numeric(6),
H id varchar(3) REFERENCES HackathonEvent(H id));
```

4.1.8 Scores

```
CREATE TABLE Scores(
s_id varchar(3) PRIMARY KEY,
H_id varchar(3) REFERENCES HackathonEvent(H_id),
T_id varchar(3) REFERENCES teams(T_id),
J_id varchar(3) REFERENCES Judges(J_id));
```

4.2) DATA INSERTION

4.2.1 teams

INSERT INTO teams values ('T01', 'Hacksquad', 'Cypher Link',

'https://github.com/HIMANSHIthakkar/himanshi', 'Empowering Indie

Developers Across Blockchains');

INSERT INTO teams values

('T02','ByteBattles','AlumInsights','https://github.com/HIMANSHIthakkar/himan shi','Alumni Insights for Placement Preparations');

INSERT INTO teams values

('T03','HackHeroes','Gitsume','https://github.com/shailifadadu','Crafting the perfect resume just got easier');

INSERT INTO teams values

('T04','WebWarriors','InterviewMap','https://github.com/shailifadadu','Crafting the perfect resume just got easier');

4.2.2 Participants

INSERT INTO participants

values('P01','Himanshi','Thakkar',8780230308,'c++,java','T01');

INSERT INTO participants

values('P02','Srushti','Gol',8780230308,'c++,java','T01');

INSERT INTO participants

values('P03','Manan','Patel',8780230208,'Dbms,python','T01');

INSERT INTO participants

values('P04','Isha','Jagani',8780230209,'React,C','T01');

INSERT INTO participants values('P05','Mansi','Shah',8780222209,'Node js,js','T02');

INSERT INTO participants

values('P06','Shyam','Shah',9780222209,'sql,js,React','T02');

INSERT INTO participants values('P07','Mann','Jain',9730220209,'next js,React','T02');

INSERT INTO participants

values('P08','Shaily','Fadadu',9730223209,'AWS,Docker','T03');

INSERT INTO participants

values('P09','Neha','Patel',9730123209,'HTML,CSS,JS','T03');

INSERT INTO participants values('P10','Meet','soni',9730123289,'React, next JS','T03');

INSERT INTO participants values('P11','Disha','Modi',9730893289,'AI/ML,node JS','T03');

INSERT INTO participants

values('P12','Devanshi','Patel',9830893289,'React,node JS','T04');

INSERT INTO participants

values('P13','kunj','Patel',9830593289,'GCP,mernstack','T04');

INSERT INTO participants

values('P14','krish','Desai',9830593279,'AI/ML,mongo DB','T04');

4.2.3 HackathonEvent

INSERT INTO HackathonEvent

values('H01','DUHacks','24/02/2024','26/02/2024','ddu college','offline');

INSERT INTO HackathonEvent

values('H02','Hack&Chill','16/01/2024','17/01/2024','ddu college','offline');

INSERT INTO HackathonEvent

values('H03','HackNITR','8/03/2024','10/03/2024','none','online');

INSERT INTO HackathonEvent

values('H04','DataThrone','7/04/2024','8/04/2024','none','online');

4.2.4 Judges

INSERT INTO judges (j_id, jf_name, jl_name, expertise, jemail) VALUES ('J01', 'Juhi', 'Jaiswal', 'AI/ML', 'juhi890@gmail.com'), ('J02', 'Harsh', 'Thakkar', 'Web', 'hthakkar@gmail.com');

4.2.5 Sponsor

INSERT INTO Sponsor (sp_id, sp_name, sp_email, sp_level, sp_amt, h_id) VALUES ('S01','Apex Education', 'hthakkar374@gmail.com', 'Bronze', 50000, 'H01'),

('S02','Sucess overseas', 'hthakkar374@gmail.com', 'Diamond', 150000, 'H01'),

('S03','Jivan vikas Education', 'hthakkar374@gmail.com', 'Silver', 55000, 'H02');

4.2.6 Scores

```
INSERT INTO Scores (s_id, h_id, t_id, score) VALUES ('S01', 'H01', 'T01', 'J01', '4.0'), ('S02', 'H01', 'T02', 'J01', '3.0'), ('S03', 'H02', 'T01', 'J02', '4.0');
```

4.2.7 Prizes

```
INSERT INTO prizes (pr_id, pr_title, pr_amt, sp_id, h_id) VALUES ('Z01','1st', 8000, 'S01', 'H01'), ('Z02','2nd', 8000, 'S01', 'H02'), ('Z03','3rd', 8000, 'S01', 'H01'), ('Z04','1st con', 8000, 'S02', 'H03');
```

4.2.8 Registration

```
INSERT INTO registration values('R01','1/3/2024','P01','T01','H01'); INSERT INTO registration values('R02','2/3/2024','P02','T01','H01'); INSERT INTO registration values('R03','2/3/2024','P03','T01','H01'); INSERT INTO registration values('R04','3/3/2024','P04','T01','H01'); INSERT INTO registration values('R05','3/3/2024','P05','T02','H01'); INSERT INTO registration values('R06','4/3/2024','P06','T02','H01'); INSERT INTO registration values('R07','4/3/2024','P07','T02','H01'); INSERT INTO registration values('R08','4/3/2024','P08','T03','H01'); INSERT INTO registration values('R09','4/3/2024','P09','T03','H01'); INSERT INTO registration values('R10','4/3/2024','P10','T03','H01'); INSERT INTO registration values('R11','4/3/2024','P11','T03','H01'); INSERT INTO registration values('R12','4/3/2024','P12','T04','H01'); INSERT INTO registration values('R13','4/3/2024','P13','T04','H01'); INSERT INTO registration values('R13','4/3/2024','P13','T04','H01'); INSERT INTO registration values('R14','4/3/2024','P14','T04','H01'); INSERT INTO registration values('R14','4/3/2024','P13','T04','H01'); INSERT INTO registration values('R14','4/3/2024','P14','T04','H01');
```

INSERTION OUTPUT:

4.2.1 Teams

postgro	es=# select * f t_name	from teams; project_name	repo_link	p_desc
T01 T02 T03 T04 (4 rows	ByteBattles HackHeroes WebWarriors	Cypher Link AlumInsights Gitsume InterviewMap		Empowering Indie Developers Across Blockchains Alumni Insights for Placement Preparations Crafting the perfect resume just got easier Crafting the perfect resume just got easier

4.2.2 Participants

postgres=# select * from participants;					
p_id	f_name	l_name	phoneno	skills	t_id
	+	+	+	 	+
P01	Himanshi	Thakkar	8780230308	c++,java	T01
P02	Srushti	Gol	8780230308	c++,java	T01
P03	Manan	Patel	8780230208	Dbms,python	T01
P04	Isha	Jagani	8780230209	React,C	T01
P05	Mansi	Shah	8780222209	Node js,js	T02
P06	Shyam	Shah	9780222209	sql,js,React	T02
P07	Mann	Jain	9730220209	next js,React	T02
P08	Shaily	Fadadu	9730223209	AWS,Docker	T03
P09	Neha	Patel	9730123209	HTML,CSS,JS	T03
P10	Meet	soni	9730123289	React, next JS	T03
P11	Disha	Modi	9730893289	AI/ML, node JS	T03
P12	Devanshi	Patel	9830893289	React, node JS	T04
P13	kunj	Patel	9830593289	GCP, mernstack	T04
P14	krish	Desai	9830593279	AI/ML, mongo DB	T04
(14 rows)					

4.2.3 HackathonEvent

postgre h_id		from Hackathor start_date		location	mode
H01 H02 H03 H04 (4 rows	DUHacks Hack&Chill HackNITR DataThrone S)	2024-02-24 2024-01-16 2024-03-08 2024-04-07	2024-02-26 2024-01-17 2024-03-10 2024-04-08	ddu college ddu college none none	offline offline online online

4.2.4 Judges

4.2.5 Sponsor

postgre sp_id	s=# select * from sponso: sp_name		sp_level	sp_amt	h_id
S01 S02 S03 (3 rows		hthakkar374@gmail.com hthakkar374@gmail.com hthakkar374@gmail.com	Diamond	50000 150000 55000	H01 H01 H02

4.2.6 Scores

```
postgres=# select* from scores;
       score
                      J01
S01
       H01
               T01
                               4.0
               T02
                     J01
S02
       H01
                               3.0
                     J02
S03
                               4.0
       H<sub>0</sub>2
              T01
(3 rows)
```

4.2.7 Prizes

```
postgres=# select* from prizes;
 pr_id | pr_title | pr_amt | sp_id | h_id
 Z01
                        8000
                                S01
                                         H01
         1st
 Z02
         2st
                                S01
                                         H<sub>0</sub>2
                        8000
 Z03
         3rd
                        8000
                                S01
                                         H01
 Z04
         1st con
                        8000 S02
                                         H<sub>0</sub>3
(4 rows)
```

4.2.8 Registration

<pre>postgres=# select * from registration;</pre>				
r_id	reg_date	p_id	t_id	h_id
	+		+	
R01	2024-03-01	P01	T01	H01
R02	2024-03-02	P02	T01	H01
R03	2024-03-02	P03	T01	H01
R04	2024-03-03	P04	T01	H01
R05	2024-03-03	P05	T02	H01
R06	2024-03-04	P06	T02	H01
R07	2024-03-04	P07	T02	H01
R08	2024-03-04	P08	T03	H01
R09	2024-03-04	P09	T03	H01
R10	2024-03-04	P10	T03	H01
R11	2024-03-04	P11	T03	H01
R12	2024-03-04	P12	T04	H01
R13	2024-03-04	P13	T04	H01
R14	2024-03-04	P14	T04	H01
(14 rows)				

4.3) QUERIES USING BASIC DBMS CONSTRUCTS JOIN & SUBQUERIES:

4.3.1 Display Participants First name and Last name

```
postgres=# select f_name,l_name from participants;
  f_name
           l_name
 Himanshi
            Thakkar
 Srushti
            Gol
            Patel
 Manan
 Isha
            Jagani
            Shah
 Mansi
 Shyam
            Shah
 Mann
            Jain
 Shaily
            Fadadu
            Patel
 Neha
 Meet
            soni
 Disha
            Modi
 Devanshi
            Patel
 kunj
            Patel
 krish
            Desai
yash
            soni
            soni
yash
(16 rows)
```

4.3.2 Find all the offline Hackathon Event and their corresponding sponsors



4.3.3 Display the names of the participants and the teams they belong to, along with the project names

```
oostgres=#
                            t_name,project_name from participants p inner join teams t on p.T_id=t.T_id;
  f_name
               t_name
                             project_name
Himanshi
             Hacksquad
                             Cypher Link
Srushti
             Hacksquad
                             Cypher Link
                             Cypher Link
Cypher Link
Cypher Link
AlumInsights
AlumInsights
Manan
             Hacksquad
Isha
             Hacksquad
Mansi
             ByteBattles
Shyam
             ByteBattles
                             AlumInsights
             ByteBattles
Mann
Shaily
             HackHeroes
                             Gitsume
             HackHeroes
Neha
                             Gitsume
             HackHeroes
                             Gitsume
Meet
             HackHeroes
Disha
                             Gitsume
                             InterviewMap
Devanshi
             WebWarriors
             WebWarriors
                             InterviewMap
kunj
krish
             WebWarriors
                             InterviewMap
(14 rows)
```

4.3.4 Display the scores for each project and the descriptions of those projects

<pre>postgres=# select project_na project_name t_name</pre>	me,t_name,p_desc,score from teams t inner join sc 	ores s on t.t_id=s.t_id; score
AlumInsights ByteBattles	+	3.0

4.3.5 Display the scores given by judges to the specific projects along with their Team Name

4.4) FUNCTION & TRIGGERS:

4.4.1 Create trigger on participants table so that on insertion, it should be reflected in dummy participants.

```
Function:
CREATE OR REPLACE FUNCTION test1()
 RETURNS trigger AS
$$
BEGIN
INSERT INTO dummy participants
VALUES(old.p id,old.f name,old.l name,old.phoneno,old.skills,old.T id,curren
t date);
  RETURN NEW;
END;
$$
LANGUAGE 'plpgsql';
Trigger:
CREATE TRIGGER test trigger1
AFTER INSERT
ON dummy participants
FOR EACH ROW
EXECUTE PROCEDURE test1();
```

```
postgres=# CREATE OR REPLACE FUNCTION test()
postgres-# RETURNS trigger AS
postgres-# $$
postgres$# BEGIN
postgres$# INSERT INTO dummy_participants
postgres$# VALUES(NEW.p_id,NEW.f_name,NEW.l_name,NEW.phoneno,NEW.skills,NEW.T_id,current_date);
postgres$#
postgres$# RETURN NEW;
postgres$# RETURN NEW;
postgres$# $$
postgres$# $$
postgres-# LANGUAGE 'plpgsql';
CREATE FUNCTION
postgres-# CREATE TRIGGER test_trigger
postgres-# AFTER INSERT
postgres-# ON dummy_participants
postgres-# FOR EACH ROW
postgres-# FOR EACH ROW
postgres-# EXECUTE PROCEDURE test();
CREATE TRIGGER
```

4.5) CURSOR:

Create Cursor to display all the participants participating in Hackathon Event.

```
CURSOR SYNTAX:
CREATE OR REPLACE FUNCTION process participants()
RETURNS void AS $$
DECLARE
 participant cursor CURSOR FOR
  SELECT *
  FROM participants;
participant participants%ROWTYPE;
BEGIN
 OPEN participant cursor;
  FETCH participant cursor INTO participant;
  EXIT WHEN NOT FOUND;
  RAISE NOTICE 'Participant ID: %', participant.p id;
  RAISE NOTICE 'Name: % %', participant.f name, participant.l name;
  RAISE NOTICE 'Phone Number: %', participant.phoneno;
  RAISE NOTICE 'Skills: %', participant.skills;
  RAISE NOTICE 'Team ID: %', participant.t id;
 RAISE NOTICE '-----;
 END LOOP;
 CLOSE participant cursor;
END;
$$ LANGUAGE plpgsql;
```

```
postgres=# CREATE OR REPLACE FUNCTION process_participants()
postgres-# RETURNS void AS $$
postgres$# DECLARE
postgres$#
             participant_cursor CURSOR FOR
               SELECT *
postgres$#
postgres$#
               FROM participants;
             participant participants%ROWTYPE;
postgres$#
postgres$#
postgres$# BEGIN
postgres$#
             OPEN participant_cursor;
postgres$#
postgres$#
             L00P
               FETCH participant_cursor INTO participant;
postgres$#
postgres$#
postgres$#
               EXIT WHEN NOT FOUND;
postgres$#
               postgres$#
postgres$#
postgres$#
postgres$#
postgres$#
               RAISE NOTICE
postgres$#
postgres$#
             END LOOP;
             CLOSE participant_cursor;
postgres$#
postgres$#
postgres$# END;
postgres$# $$ LANGUAGE plpgsql;
CREATE FUNCTION
postgres=#
postgres=# select process_participants();
NOTICE: Participant ID: P01
NOTICE: Name: Himanshi Thakkar
NOTICE: Phone Number: 8780230308
NOTICE: Skills: c++, java
NOTICE: Team ID: T01
```

```
NOTICE:
         Participant ID: P16
NOTICE:
         Name: yash soni
         Phone Number: 9730123289
NOTICE:
         Skills: React, next JS
NOTICE:
NOTICE:
         Team ID: T03
NOTICE:
NOTICE:
         Participant ID: P18
         Name: Meet soni
NOTICE:
NOTICE:
         Phone Number: 9730123289
NOTICE:
         Skills: React, next JS
         Team ID: T04
NOTICE:
NOTICE:
NOTICE:
         Participant ID: P19
         Name: Meet soni
NOTICE:
         Phone Number: 9730123289
NOTICE:
         Skills: React, next JS
NOTICE:
         Team ID: T04
NOTICE:
NOTICE:
process_participants
(1 row)
```