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INTER-COLLEGE COMPETITION
DATABASE MANAGEMENT SYSTEM

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SYNOPSIS

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INTRODUCTION:

Inter-college competitions are a great way for students to showcase their talents, engage in healthy competition and develop essential skills such as teamwork and leadership. However, it can be challenging for students to keep track of all the inter-college competitions in various fields and categories. To address this issue, a database project can be developed to provide students with a comprehensive and up-to-date resource of inter-college competitions.

Entities involved:

The database includes following entities:

1. JUDGE_LIST: A table that stores information about judges, including their unique ID, first and last name, and email address.
2. ORGANIZER: A table that stores information about organizers, including their unique ID, name, and type.
3. SPONSER: A table that stores information about sponsors, including their unique ID, name, amount of sponsorship, and type.
4. COMPETITION: A table that stores information about competitions, including their unique ID, date, location, name, and the ID of the organizer that is hosting the competition.
5. JUDGES: A table that represents the many-to-many relationship between competitions and judges, storing the IDs of the competition and the judge, with a primary key that is a combination of both IDs. It uses foreign keys to reference the COMPETITION and JUDGE_LIST tables.
6. SPONSORSHIPS : A table that represents the many-to-many relationship between competitions and sponsors, storing the IDs of the competition and the sponsor. It uses foreign keys to reference the COMPETITION and SPONSOR tables.
7. COLLEGE: A table that stores information about colleges, including their unique ID, name, and location.
8. PARTICIPANTS: A table that stores information about participants, including their unique ID, first and last name, email address, roll number, and the ID of the college they belong to. It uses a foreign key to reference the COLLEGE table.

9. TEAMS: A table that stores information about teams, including their unique ID and name.
10. MAKE_TEAM: A table that represents the many-to-many relationship between teams and participants, storing the IDs of the team and the participant. It uses foreign keys to reference the TEAMS and PARTICIPANTS tables.
11. WINNERS: A table that represents the many-to-many relationship between teams and competitions, storing the IDs of the team and the competition, along with the bounty amount for winning the competition. It uses foreign keys to reference the TEAMS and COMPETITION tables.
12. REGISTERS: A table that represents the many-to-many relationship between teams and competitions, storing the IDs of the team and the competition, along with the payment information for registering in the competition. It uses foreign keys to reference the TEAMS and COMPETITION tables.

ABOUT RELATIONSHIPS -

- One organizer can organize many competitions. (ORGANIZER to COMPETITION)
- One sponsor can sponsor many competitions. (SPONSOR to SPONSORSHIPS)
- One college can have many participants. (COLLEGE to PARTICIPANTS)
- One team can have many participants. (TEAMS to MAKE_TEAM)
- One competition can have many registers. (COMPETITION to REGISTERS)
- Many competitions can have many judges, and a judge can judge many competitions. (COMPETITION to JUDGES)
- Many competitions can have many sponsors, and a sponsor can sponsor many competitions. (COMPETITION to SPONSORSHIPS)
- Many teams can participate in many competitions, and a competition can have many teams. (TEAMS to WINNERS)
- One competition can be won by one team so their will be one winner (Competition to WINNERS)
- Many students can be from one college (Student to College)
- One Student can make many teams (Student to Team)

RELATIONAL SCHEMA -

```
JUDGE_LIST(  
    JUDGE_ID VARCHAR(256) PRIMARY KEY,  
    JF_NAME VARCHAR(256),  
    JL_NAME VARCHAR(256),  
    JUDGE_EMAIL VARCHAR(256)  
)
```

```
ORGANIZER(  
    ORGANISER_ID VARCHAR(256) PRIMARY KEY,  
    ORGANISER_NAME VARCHAR(256),  
    ORGANISER_TYPE VARCHAR(256)  
)
```

```
SPONSER(  
    SPONS_ID VARCHAR(256) PRIMARY KEY,  
    SPONS_NAME VARCHAR(256),  
    SPONS_AMOUNT NUMBER,  
    SPONS_TYPE VARCHAR(256)  
)
```

```
COMPETITION(  
    COMP_ID VARCHAR(256) PRIMARY KEY,  
    COMP_DATE DATE,  
    ORGANISER_ID VARCHAR(256),  
    COMP_LOCATION VARCHAR(256),  
    COMP_NAME VARCHAR(256),  
    FOREIGN KEY (ORGANISER_ID) REFERENCES ORGANIZER(ORGANISER_ID)  
)
```

```
JUDGES(  
    COMP_ID VARCHAR(256),  
    JUDGE_ID VARCHAR(256),  
    PRIMARY KEY (COMP_ID, JUDGE_ID),  
    FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),  
    FOREIGN KEY (JUDGE_ID) REFERENCES JUDGE_LIST(JUDGE_ID)  
)
```

```
SPONSERSHIPS(  
    COMP_ID VARCHAR(256),  
    SPONS_ID VARCHAR(256),  
    FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
```

FOREIGN KEY (SPONS_ID) REFERENCES SPONSER(SPONS_ID)
)

COLLEGE(
COLLEGE_ID VARCHAR(256) PRIMARY KEY,
COLLEGE_NAME VARCHAR(256),
LOCATION VARCHAR(256)
)

PARTICIPANTS(
PARTICIPANT_ID VARCHAR(256) PRIMARY KEY,
F_NAME VARCHAR(256),
L_NAME VARCHAR(256),
COLLEGE_ID VARCHAR(256),
ROLL_NUMBER VARCHAR(256),
EMAIL VARCHAR(256),
FOREIGN KEY (COLLEGE_ID) REFERENCES COLLEGE(COLLEGE_ID)
)

TEAMS(
TEAM_ID VARCHAR(256) PRIMARY KEY,
TEAM_NAME VARCHAR(256)
)

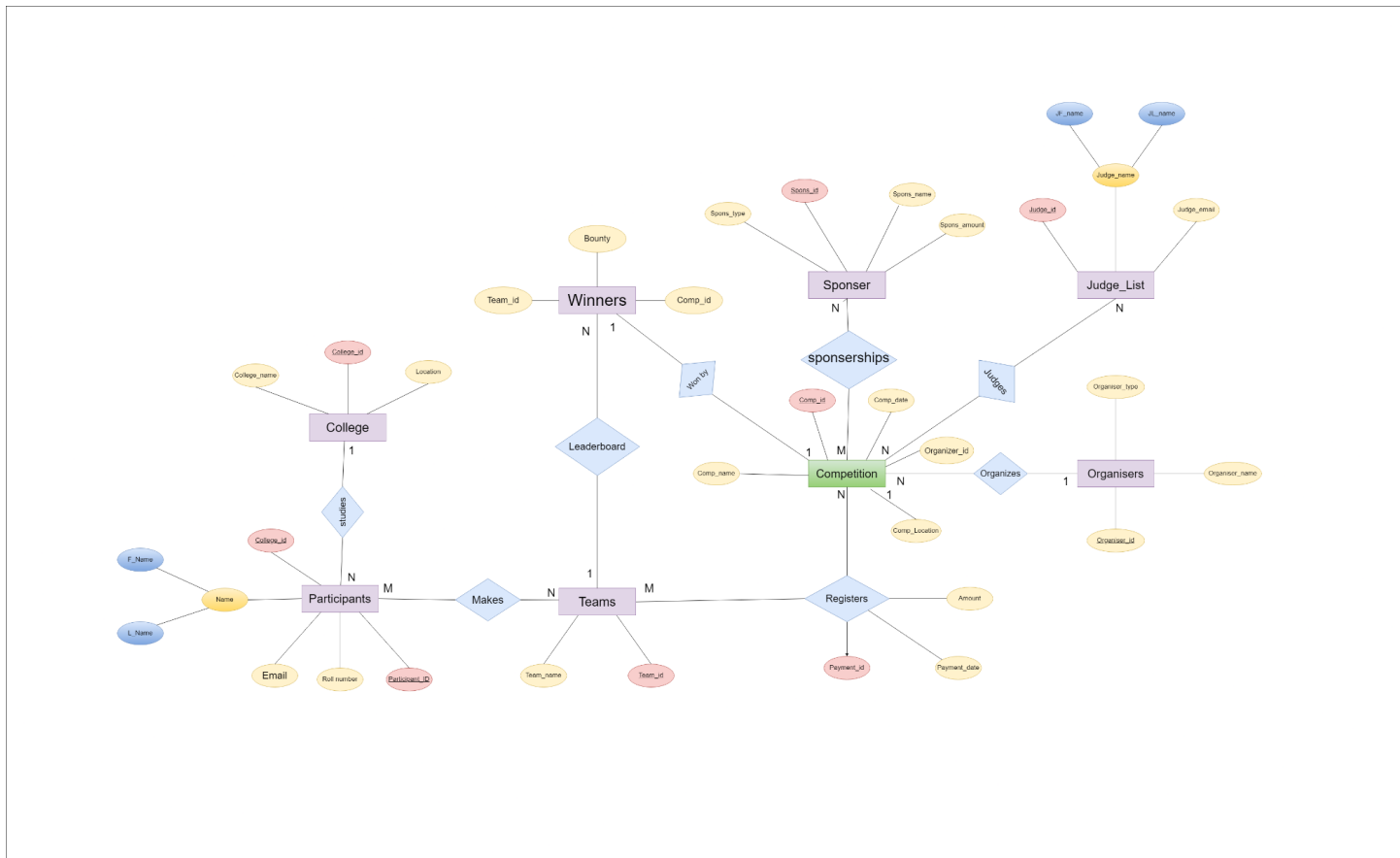
MAKE_TEAM(
TEAM_ID VARCHAR(256),
PARTICIPANT_ID VARCHAR(256),
PRIMARY KEY (TEAM_ID, PARTICIPANT_ID),
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(Team_ID),
FOREIGN KEY (PARTICIPANT_ID) REFERENCES PARTICIPANTS(PARTICIPANT_ID)
)

WINNERS(
TEAM_ID VARCHAR(256),
COMP_ID VARCHAR(256),
BOUNTY NUMBER,
PRIMARY KEY (TEAM_ID, COMP_ID),
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(Team_ID),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID)
)

REGISTERS(
COMP_ID VARCHAR(256),
TEAM_ID VARCHAR(256),

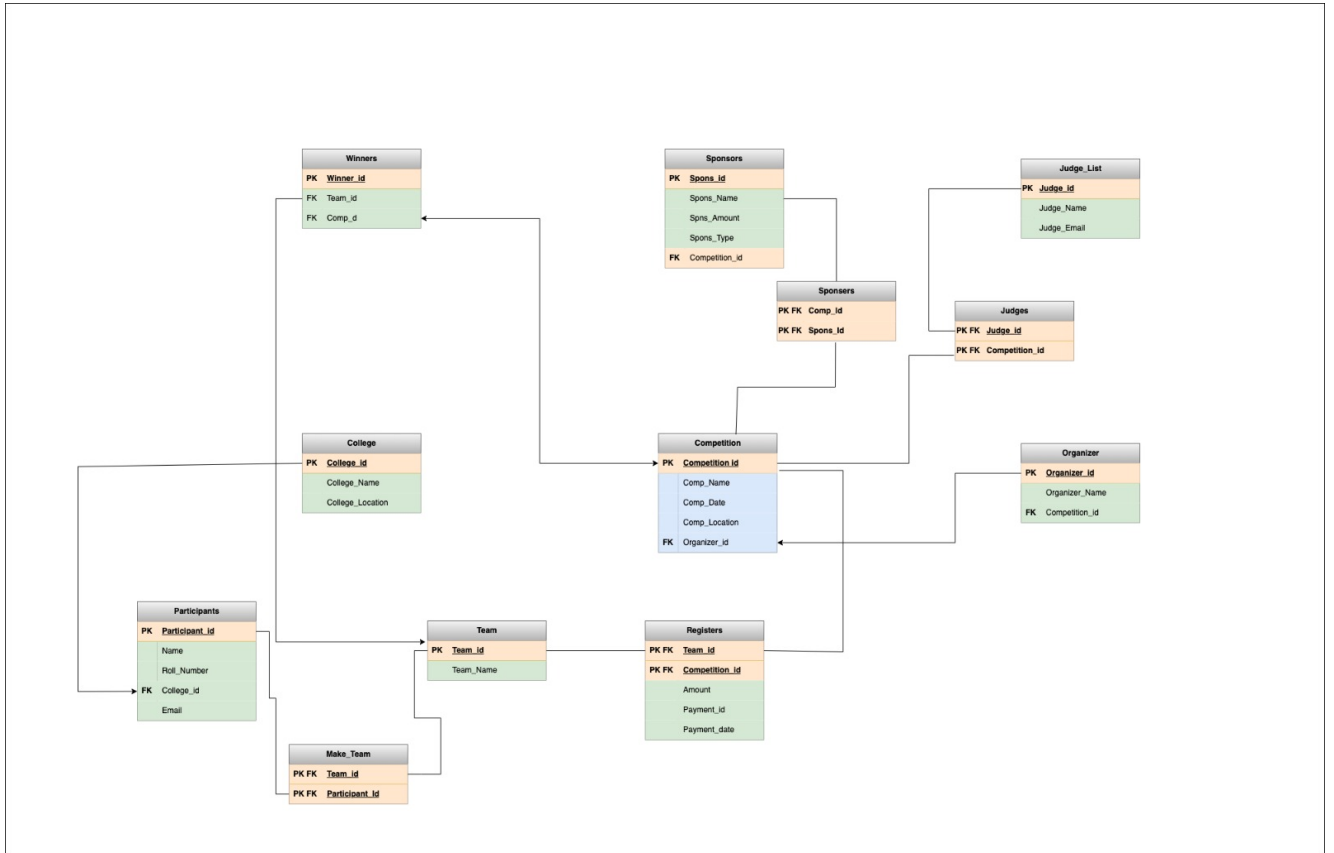
```
PAYMENT_ID VARCHAR(256),  
AMOUNT NUMBER,  
PAYMENT_DATE VARCHAR(256),  
PRIMARY KEY (TEAM_ID, COMP_ID),  
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),  
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(Team_ID)  
)
```

ER MODEL



Umm

Relational Schema



Creation of Table :

--1

```
CREATE TABLE JUDGE_LIST(  
JUDGE_ID VARCHAR(256) PRIMARY KEY,  
JF_NAME VARCHAR(256),  
JL_NAME VARCHAR(256),  
JUDGE_EMAIL VARCHAR(256)  
);
```

```
CREATE TABLE ORGANIZER(  
ORGANISER_ID VARCHAR(256) PRIMARY KEY,  
ORGANISER_NAME VARCHAR(256),  
ORGANISER_TYPE VARCHAR(256)  
);
```

```
CREATE TABLE SPONSER(  
SPONS_ID VARCHAR(256) PRIMARY KEY,  
SPONS_NAME VARCHAR(256),  
SPONS_AMOUNT NUMBER,  
SPONS_TYPE VARCHAR(256)  
);
```

```
CREATE TABLE COMPETITION(  
COMP_ID VARCHAR(256) PRIMARY KEY,  
COMP_DATE DATE,  
ORGANISER_ID VARCHAR(256),  
COMP_LOCATION VARCHAR(256),  
COMP_NAME VARCHAR(256),  
FOREIGN KEY (ORGANISER_ID) REFERENCES ORGANISERS(ORGANISER_ID)  
);
```

```
CREATE TABLE JUDGES(  
COMP_ID VARCHAR(256),  
JUDGE_ID VARCHAR(256),  
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),  
FOREIGN KEY (JUDGE_ID) REFERENCES JUDGE_LIST(JUDGE_ID),
```

PRIMARY KEY (COMP_ID, JUDGE_ID)
);

CREATE TABLE SPONSERSHIPS(
COMP_ID VARCHAR(256),
SPONS_ID VARCHAR(256),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
FOREIGN KEY (SPONS_ID) REFERENCES SPONSER(SPONS_ID)
);

CREATE TABLE COLLEGE(
COLLEGE_ID VARCHAR(256) PRIMARY KEY,
COLLEGE_NAME VARCHAR(256),
LOCATION VARCHAR(256)
);

CREATE TABLE PARTICIPANTS(
PARTICIPANT_ID VARCHAR(256) PRIMARY KEY,
F_NAME VARCHAR(256),
L_NAME VARCHAR(256),
COLLEGE_ID VARCHAR(256),
ROLL_NUMBER VARCHAR(256),
EMAIL VARCHAR(256),
FOREIGN KEY (COLLEGE_ID) REFERENCES COLLEGE(COLLEGE_ID)
);

CREATE TABLE TEAMS(
TEAM_ID VARCHAR(256) PRIMARY KEY,
TEAM_NAME VARCHAR(256)
);

CREATE TABLE MAKE_TEAM(
TEAM_ID VARCHAR(256),
PARTICIPANT_ID VARCHAR(256),
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(Team_ID),
FOREIGN KEY (PARTICIPANT_ID) REFERENCES PARTICIPANTS(PARTICIPANT_ID),
PRIMARY KEY (TEAM_ID, PARTICIPANT_ID)
);

CREATE TABLE WINNERS(

```
TEAM_ID VARCHAR(256),
COMP_ID VARCHAR(256),
BOUNTY NUMBER,
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(Team_ID),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
PRIMARY KEY (TEAM_ID, COMP_ID)
);
```

```
CREATE TABLE REGISTERS(
COMP_ID VARCHAR(256),
TEAM_ID VARCHAR(256),
PAYMENT_ID VARCHAR(256),
AMOUNT NUMBER,
PAYMENT_DATE VARCHAR(256),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(Team_ID),
PRIMARY KEY(Team_ID, COMP_ID)
);
```

INSERTION OF VALUES -

--1

```
CREATE TABLE JUDGE_LIST(
JUDGE_ID VARCHAR(256) PRIMARY KEY,
JF_NAME VARCHAR(256),
JL_NAME VARCHAR(256),
JUDGE_EMAIL VARCHAR(256)
);
```

```
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J001', 'JOHN', 'DOE', 'JOHNDOE@EMAIL.COM');
```

```
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J002', 'JANE', 'SMITH', 'JANESMITH@EMAIL.COM');
```

```
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J003', 'DAVID', 'LEE', 'DAVIDLEE@EMAIL.COM');
```

```

INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J004', 'KAREN', 'WONG', 'KARENWONG@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J005', 'ALEX', 'NGUYEN', 'ALEXNGUYEN@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J006', 'SAMANTHA', 'KIM', 'SAMANTHAKIM@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J007', 'JASON', 'TAN', 'JASONTAN@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J008', 'EMILY', 'CHEN', 'EMILYCHEN@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J009', 'MICHAEL', 'NG', 'MICHAELNG@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J010', 'STEPHANIE', 'WU', 'STEPHANIEWU@EMAIL.COM');
INSERT INTO JUDGE_LIST (JUDGE_ID, JF_NAME, JL_NAME, JUDGE_EMAIL) VALUES
('J011', 'LINKESH', 'HU', 'LINKESHU@EMAIL.COM');

```

```

select * from judge_list;

```

```

--2

```

```

CREATE TABLE ORGANIZER(
ORGANISER_ID VARCHAR(256) PRIMARY KEY,
ORGANISER_NAME VARCHAR(256),
ORGANISER_TYPE VARCHAR(256)
);

```

```

INSERT INTO ORGANIZER VALUES('X001','ORACLE','COMPANY');
INSERT INTO ORGANIZER VALUES('X002','NITW','COLLEGE');
INSERT INTO ORGANIZER VALUES('X003','IITB','COLLEGE');
INSERT INTO ORGANIZER VALUES('X004','NITK','COLLEGE');
INSERT INTO ORGANIZER VALUES('X005','AMAZON','COMPANY');
INSERT INTO ORGANIZER VALUES('X006','SALESFORCE','COMPANY');
INSERT INTO ORGANIZER VALUES('X007','UBER','COMPANY');
INSERT INTO ORGANIZER VALUES('X009','IITD','COLLEGE');
INSERT INTO ORGANIZER VALUES('X008','IITM','COLLEGE');
INSERT INTO ORGANIZER VALUES('X010','NSUT','COLLEGE');
SELECT * FROM ORGANIZER;

```

```

--3

```

```

CREATE TABLE SPONSER(
SPONS_ID VARCHAR(256) PRIMARY KEY,

```

```
SPONS_NAME VARCHAR(256),
SPONS_AMOUNT NUMBER,
SPONS_TYPE VARCHAR(256)
);
```

```
INSERT INTO SPONSER VALUES('SOO1','REALME','20000','MOBILE PARTNER');
INSERT INTO SPONSER VALUES('SOO2','DPS','10000','EDUCATION PARTNER');
INSERT INTO SPONSER VALUES('SOO3','CANON','50000','PHOTOGRAPHY PARTNER');
INSERT INTO SPONSER VALUES('SOO4','COCO COLA','20000','BEVERAGE PARTNER');
INSERT INTO SPONSER VALUES('SOO5','EVEREST CONSULTING','70000','CONSULTING
PARTNER');
INSERT INTO SPONSER VALUES('SOO6','MONEYCONTROL','90000','STOCKS PARTNER');
INSERT INTO SPONSER VALUES('SOO7','MILTON','45000','UTENSIL PARTNER');
INSERT INTO SPONSER VALUES('SOO8','MAKE MY TRIP','40000','TRAVEL PARTNER');
INSERT INTO SPONSER VALUES('SOO9','VIVO','80000','MOBILE PARTNER');
INSERT INTO SPONSER VALUES('SO10','PAYTM','20000','PAYMENTS PARTNER');
INSERT INTO SPONSER VALUES('SO11','AXIS','20000','BANKING PARTNER');
```

```
SELECT * FROM SPONSER;
```

```
--4
```

```
CREATE TABLE COMPETITION(
  COMP_ID VARCHAR(256) PRIMARY KEY,
  COMP_DATE DATE,
  ORGANIZER_ID VARCHAR(256),
  COMP_LOCATION VARCHAR(256),
  COMP_NAME VARCHAR(256),
  FOREIGN KEY (ORGANIZER_ID) REFERENCES ORGANIZER(ORGANISER_ID)
);
```

```
INSERT INTO COMPETITION VALUES('A000001', '15 JAN 2023', 'X001', 'DELHI', 'HACKIT');
INSERT INTO COMPETITION VALUES('A000002', '1 FEB 2023', 'X002', 'MUMBAI',
'CHANAKYA');
INSERT INTO COMPETITION VALUES('A000003', '6 FEB 2023', 'X003', 'JAIPUR', 'HACKERS');
INSERT INTO COMPETITION VALUES('A000004', '9 APR 2023', 'X004', 'NAGPUR', 'WINNERS');
INSERT INTO COMPETITION VALUES('A000005', '9 AUG 2022', 'X005', 'KOLKATA', 'STONKS');
INSERT INTO COMPETITION VALUES('A000006', '10 DEC 2022', 'X006', 'AMRITSAR',
'KHILADI');
INSERT INTO COMPETITION VALUES('A000007', '9 NOV 2022', 'X002', 'DELHI', 'SOLVER');
```

```

INSERT INTO COMPETITION VALUES('A000008', '2 JAN 2022', 'X001', 'TRICHY', 'KAUN
BANEGA AMBANI');
INSERT INTO COMPETITION VALUES('A000009', '5 JUL 2022', 'X003', 'GADCHIROLI', 'THE X
FACTOR');
INSERT INTO COMPETITION VALUES('A000010', '9 JUN 2022', 'X006', 'MAU', 'MYSTERY');
INSERT INTO COMPETITION VALUES('A000011', '5 NOV 2022', 'X008', 'GUWAHTI', 'TRUE
LEADER');
INSERT INTO COMPETITION VALUES('A000012', '23 JUN 2022', 'X009', 'PUNE', 'KASER
CHALLENGER');
INSERT INTO COMPETITION VALUES('A000013', '9 AUG 2022', 'X001', 'HYDERABAD',
'MATHOPEDIA');
INSERT INTO COMPETITION VALUES('A000014', '16 SEPT 2022', 'X003', 'BANGALORE',
'SARKYASAM');
INSERT INTO COMPETITION VALUES('A000015', '19 OCT 2022', 'X002', 'CHENNAI', 'FIREFLY');
INSERT INTO COMPETITION VALUES('A000016', '22 SEP 2022', 'X009', 'SURATKAL', 'TRINIT');
INSERT INTO COMPETITION VALUES('A000017', '4 SEP 2022', 'X010', 'SURAT', 'UBERSHE');
INSERT INTO COMPETITION VALUES('A000018', '6 MAY 2022', 'X007', 'NAVI MUMBAI',
'CONSORTIUM');
INSERT INTO COMPETITION VALUES('A000019', '9 MAR 2022', 'X003', 'INDORE',
'HULT-PRIZE');
INSERT INTO COMPETITION VALUES('A000020', '1 APR 2022', 'X004', 'DAMAN', 'FLIPKART
CHALLENGE');
INSERT INTO COMPETITION VALUES('A000021', '2 JUL 2022', 'X005', 'DELHI', 'VIKAS');
INSERT INTO COMPETITION VALUES('A000022', '11 JAN 2022', 'X002', 'DELHI', 'VYAGANIK');
SELECT * FROM COMPETITION;

```

--5

```

CREATE TABLE JUDGES(
COMP_ID VARCHAR(256),
JUDGE_ID VARCHAR(256),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
FOREIGN KEY (JUDGE_ID) REFERENCES JUDGE_LIST(JUDGE_ID),
PRIMARY KEY (COMP_ID, JUDGE_ID)
);

```

```

INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000001', 'J001');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000001', 'J002');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000002', 'J003');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000002', 'J004');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000003', 'J005');

```

```
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000003', 'J006');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000004', 'J007');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000004', 'J008');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000005', 'J009');
INSERT INTO JUDGES (COMP_ID, JUDGE_ID) VALUES ('A000005', 'J010');
select * from judges;
```

--6

```
CREATE TABLE SPONSERSHIPS(
COMP_ID VARCHAR(256),
SPONS_ID VARCHAR(256),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
FOREIGN KEY (SPONS_ID) REFERENCES SPONSER(SPONS_ID)
);
```

```
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000001', 'SOO1');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000001', 'SOO3');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000002', 'SOO5');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000002', 'SOO2');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000003', 'SOO6');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000003', 'SOO7');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000004', 'SOO9');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000005', 'SOO4');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000006', 'SOO8');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000007', 'SOO2');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000008', 'SO10');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000009', 'SOO3');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000010', 'SOO5');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000011', 'SOO6');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000012', 'SOO7');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000013', 'SOO1');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000014', 'SOO3');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000015', 'SOO5');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000016', 'SOO7');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000017', 'SOO4');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000018', 'SOO5');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000019', 'SOO6');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000020', 'SOO1');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000021', 'SOO4');
INSERT INTO SPONSERSHIPS (COMP_ID, SPONS_ID) VALUES ('A000022', 'SOO3');
```



```
SELECT * FROM SPONSHERSHIPS;
```

```
--7
```

```
CREATE TABLE COLLEGE(  
COLLEGE_ID VARCHAR(256) PRIMARY KEY,  
COLLEGE_NAME VARCHAR(256),  
LOCATION VARCHAR(256)  
);
```

```
INSERT INTO COLLEGE VALUES('C0001','NATIONAL INSTITUTE OF TECHNOLOGY,  
WARANGAL','WARANGAL');
```

```
INSERT INTO COLLEGE VALUES('C0002','NATIONAL INSTITUTE OF TECHNOLOGY,  
TRICHY','TRICHY');
```

```
INSERT INTO COLLEGE VALUES('C0003','NATIONAL INSTITUTE OF TECHNOLOGY,  
SURATKAL','SURATKAL');
```

```
INSERT INTO COLLEGE VALUES('C0004','NATIONAL INSTITUTE OF TECHNOLOGY,  
SURAT','SURAT');
```

```
INSERT INTO COLLEGE VALUES('C0005','NATIONAL INSTITUTE OF TECHNOLOGY,  
RAIPUR','RAIPUR');
```

```
INSERT INTO COLLEGE VALUES('C0006','NATIONAL INSTITUTE OF TECHNOLOGY,  
ROURKELA','ROURKELA');
```

```
INSERT INTO COLLEGE VALUES('C0007','NATIONAL INSTITUTE OF TECHNOLOGY,  
BHOPAL','BHOPAL');
```

```
INSERT INTO COLLEGE VALUES('C0008','NATIONAL INSTITUTE OF TECHNOLOGY,  
KOTTAYAM','KOTTAYAM');
```

```
INSERT INTO COLLEGE VALUES('C0009','NATIONAL INSTITUTE OF TECHNOLOGY,  
CALICUT','CALICUT');
```

```
INSERT INTO COLLEGE VALUES('C0010','NATIONAL INSTITUTE OF TECHNOLOGY,  
NAGPUR','NAGPUR');
```

```
INSERT INTO COLLEGE VALUES('C0011','NATIONAL INSTITUTE OF TECHNOLOGY,  
PUNE','PUNE');
```

```
INSERT INTO COLLEGE VALUES('C0015','INDIAN INSTITUTE OF TECHNOLOGY,  
BOMBAY','POWAI');
```

```
INSERT INTO COLLEGE VALUES('C0016','INDIAN INSTITUTE OF TECHNOLOGY,  
DELHI','DELHI');
```

```
INSERT INTO COLLEGE VALUES('C0017','INDIAN INSTITUTE OF TECHNOLOGY,  
ROORKEE','ROORKEE');
```

```
INSERT INTO COLLEGE VALUES('C0012','INDIAN INSTITUTE OF TECHNOLOGY,  
MANDI','MANDI');
```

```
INSERT INTO COLLEGE VALUES('C0013','INDIAN INSTITUTE OF TECHNOLOGY,  
MADRAS','CHENNAI');
```

```
INSERT INTO COLLEGE VALUES('C0014','INDIAN INSTITUTE OF TECHNOLOGY,  
JAMMU','JAMMU');  
SELECT * FROM COLLEGE;
```

--8

```
CREATE TABLE PARTICIPANTS(  
PARTICIPANT_ID VARCHAR(256) PRIMARY KEY,  
F_NAME VARCHAR(256),  
L_NAME VARCHAR(256),  
COLLEGE_ID VARCHAR(256),  
ROLL_NUMBER VARCHAR(256),  
EMAIL VARCHAR(256),  
FOREIGN KEY (COLLEGE_ID) REFERENCES COLLEGE(COLLEGE_ID)  
);
```

```
INSERT INTO PARTICIPANTS  
VALUES('P0001','RAHUL','SHARMA','C0015','18BCE1001','RAHUL.SHARMA@IITB.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0002','SHREYA','GUPTA','C0016','18BME1005','SHREYA.GUPTA@IITD.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0003','MOHIT','SINGH','C0017','18BEE1003','MOHIT.SINGH@IITR.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0004','ANANYA','SINGH','C0012','18BDS1007','ANANYA.SINGH@IITMANDI.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0005','SHIVANG','VERMA','C0013','18BCE1008','SHIVANG.VERMA@IITM.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0006','AVNI','PATEL','C0014','18BME1002','AVNI.PATEL@IITJ.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0007','JAYESH','MEHTA','C0001','18BCE1004','JAYESH.MEHTA@NITW.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0008','RISHI','SHAH','C0002','18BME1001','RISHI.SHAH@NITT.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0009','NISHA','RAO','C0003','18BEE1005','NISHA.RAO@NITK.AC.IN');  
INSERT INTO PARTICIPANTS  
VALUES('P0010','SANJANA','SINGH','C0004','18BDS1003','SANJANA.SINGH@NITS.AC.IN');  
  
INSERT INTO PARTICIPANTS VALUES('P004', 'GAURAV', 'SHARMA', 'C0005', '17BCE0201',  
'GAURAV.SHARMA@NITRR.AC.IN');  
INSERT INTO PARTICIPANTS VALUES('P005', 'KAVITA', 'RAJPUT', 'C0017', '19BCE0034',  
'KAVITA.RAJPUT@IITR.AC.IN');
```

```

INSERT INTO PARTICIPANTS VALUES('P006', 'HIMANSHI', 'SINGH', 'C0012', '18BCE0099',
'HIMANSHI.SINGH@IITM.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P007', 'PRATIK', 'GANDHI', 'C0003', '17BCE0511',
'PRATIK.GANDHI@NITK.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P008', 'MANISH', 'GUPTA', 'C0016', '20BCE0022',
'MANISH.GUPTA@IITD.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P009', 'SHIVANI', 'YADAV', 'C0004', '18BCE0312',
'SHIVANI.YADAV@NITS.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P010', 'MOHIT', 'VERMA', 'C0006', '19BCE0234',
'MOHIT.VERMA@NITRKL.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P011', 'PRIYANKA', 'SHARMA', 'C0013', '18BCE0456',
'PRIYANKA.SHARMA@IITM.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P012', 'ANJALI', 'GUPTA', 'C0009', '20BCE0567',
'ANJALI.GUPTA@NITC.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P013', 'RAHUL', 'SHARMA', 'C0015', '17BCE0432',
'RAHUL.SHARMA@IITB.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P014', 'KARTIK', 'SINGH', 'C0001', '18BCE0123',
'KARTIK.SINGH@NITW.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P015', 'SWATI', 'MEHTA', 'C0008', '19BCE0567',
'SWATI.MEHTA@NITKTY.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P016', 'SNEHA', 'SHAH', 'C0011', '20BCE0789',
'SNEHA.SHAH@IITP.AC.IN');
INSERT INTO PARTICIPANTS VALUES('P017', 'VIVEK', 'RAJPUT', 'C0014', '18BCE0678',
'VIVEK.RAJPUT@IITJ.AC.IN');

```

```

SELECT * FROM PARTICIPANTS;

```

```

--9

```

```

CREATE TABLE TEAMS(
TEAM_ID VARCHAR(256) PRIMARY KEY,
TEAM_NAME VARCHAR(256)
);

```

```

INSERT INTO TEAMS VALUES('T001','XSPARK');
INSERT INTO TEAMS VALUES('T002','DEUBUGGERS');
INSERT INTO TEAMS VALUES('T003','DATAVERSE');
INSERT INTO TEAMS VALUES('T004','SMARTIES');

```

```

INSERT INTO TEAMS VALUES('T005','HULKS TRIO');
INSERT INTO TEAMS VALUES('T006','WHOS THE BOSS');
INSERT INTO TEAMS VALUES('T007','LMAO');
INSERT INTO TEAMS VALUES('T008','LEGENDS');
INSERT INTO TEAMS VALUES('T009','DUMBS');
INSERT INTO TEAMS VALUES('T0010','JEETA DO');
INSERT INTO TEAMS VALUES('T0011','HYUMANS');
INSERT INTO TEAMS VALUES('T0012','AVENGERS');
INSERT INTO TEAMS VALUES('T0013','MUMBAI INDIANS');
INSERT INTO TEAMS VALUES('T0014','TELUGU TITANS');
INSERT INTO TEAMS VALUES('T0015','MAMA');
INSERT INTO TEAMS VALUES('T0016','SIGMA GANG');
INSERT INTO TEAMS VALUES('T0017','TLE ELIMINATORS');
INSERT INTO TEAMS VALUES('T0018','STONES');
INSERT INTO TEAMS VALUES('T0019','DIAMONDS');
INSERT INTO TEAMS VALUES('T0020','LOSERS');
SELECT * FROM TEAMS;
--10

```

```

CREATE TABLE MAKE_TEAM(
PARTICIPANT_ID VARCHAR(256),
TEAM_ID VARCHAR(256),
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(TEAM_ID),
FOREIGN KEY (PARTICIPANT_ID) REFERENCES PARTICIPANTS(PARTICIPANT_ID),
PRIMARY KEY (TEAM_ID, PARTICIPANT_ID)
);
INSERT INTO MAKE_TEAM VALUES('P0001', 'T001');
INSERT INTO MAKE_TEAM VALUES('P0002', 'T002');
INSERT INTO MAKE_TEAM VALUES('P0003', 'T003');
INSERT INTO MAKE_TEAM VALUES('P0004', 'T004');
INSERT INTO MAKE_TEAM VALUES('P0005', 'T001');
INSERT INTO MAKE_TEAM VALUES('P0006', 'T002');
INSERT INTO MAKE_TEAM VALUES('P0007', 'T003');
INSERT INTO MAKE_TEAM VALUES('P0008', 'T004');
INSERT INTO MAKE_TEAM VALUES('P0009', 'T001');
INSERT INTO MAKE_TEAM VALUES('P0010', 'T002');
INSERT INTO MAKE_TEAM VALUES('P004', 'T003');
INSERT INTO MAKE_TEAM VALUES('P005', 'T004');
INSERT INTO MAKE_TEAM VALUES('P006', 'T001');
INSERT INTO MAKE_TEAM VALUES('P007', 'T002');

```

```

INSERT INTO MAKE_TEAM VALUES('P008', 'T003');
INSERT INTO MAKE_TEAM VALUES('P009', 'T004');
INSERT INTO MAKE_TEAM VALUES('P010', 'T001');
INSERT INTO MAKE_TEAM VALUES('P011', 'T002');
INSERT INTO MAKE_TEAM VALUES('P012', 'T003');
INSERT INTO MAKE_TEAM VALUES('P013', 'T004');
INSERT INTO MAKE_TEAM VALUES('P014', 'T001');
INSERT INTO MAKE_TEAM VALUES('P015', 'T002');
INSERT INTO MAKE_TEAM VALUES('P016', 'T003');
INSERT INTO MAKE_TEAM VALUES('P017', 'T004');

```

--11

```

CREATE TABLE WINNERS(
TEAM_ID VARCHAR(256),
COMP_ID VARCHAR(256),
BOUNTY NUMBER,
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(TEAM_ID),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
PRIMARY KEY (TEAM_ID, COMP_ID)
);
select * from winners;
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T001', 'A000001', 5000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T003', 'A000001', 7500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T007', 'A000001', 10000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T002', 'A000002', 6000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T004', 'A000002', 8500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T009', 'A000002', 9500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T001', 'A000003', 7000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T003', 'A000003', 9000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T006', 'A000003', 11000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T004', 'A000004', 8000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T006', 'A000004', 9500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T008', 'A000004', 12000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T005', 'A000005', 5500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T007', 'A000005', 7500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T009', 'A000005', 10000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T002', 'A000006', 6000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T005', 'A000006', 8000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T006', 'A000006', 11000);

```

```
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T004', 'A000007', 7500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T005', 'A000007', 9000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T008', 'A000007', 10500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T001', 'A000008', 5000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T002', 'A000008', 8000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T009', 'A000008', 9500);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T003', 'A000009', 7000);
INSERT INTO WINNERS (TEAM_ID, COMP_ID, BOUNTY) VALUES ('T007', 'A000009', 8500);
```

--12

```
CREATE TABLE REGISTERS(
COMP_ID VARCHAR(256),
TEAM_ID VARCHAR(256),
PAYMENT_ID VARCHAR(256),
AMOUNT NUMBER,
PAYMENT_DATE VARCHAR(256),
FOREIGN KEY (COMP_ID) REFERENCES COMPETITION(COMP_ID),
FOREIGN KEY (TEAM_ID) REFERENCES TEAMS(TEAM_ID),
PRIMARY KEY(TEAM_ID, COMP_ID)
);
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000001', 'T001', 'P00001', 500, '12 JAN 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000001', 'T002', 'P00002', 500, '14 JAN 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000002', 'T003', 'P00003', 750, '28 JAN 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000002', 'T004', 'P00004', 750, '30 JAN 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000003', 'T005', 'P00005', 1000, '3 FEB 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000003', 'T006', 'P00006', 1000, '5 FEB 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000004', 'T007', 'P00007', 2000, '6 APR 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000004', 'T008', 'P00008', 2000, '8 APR 2023');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000005', 'T009', 'P00009', 250, '7 AUG 2022');
```

```
INSERT INTO REGISTERS (COMP_ID, TEAM_ID, PAYMENT_ID, AMOUNT, PAYMENT_DATE)
VALUES ('A000005', 'T0010', 'P00010', 250, '8 AUG 2022');
select * from registers;
```

TESTING QUERIES :

--1. Find all the judges who have not been assigned to any competition:

```
SELECT JUDGE_LIST.*  
FROM JUDGE_LIST  
WHERE JUDGE_LIST.JUDGE_ID NOT IN (  
    SELECT JUDGES.JUDGE_ID  
    FROM JUDGES  
);
```

	JUDGE_ID	JF_NAME	JL_NAME	JUDGE_EMAIL
1	J011	LINKESH	HU	LINKESHU@EMAIL.COM

--2. Find the winners of a specific competition with the competition ID 'C001':

```
SELECT TEAMS.TEAM_NAME, WINNERS.BOUNTY  
FROM TEAMS  
JOIN WINNERS ON TEAMS.TEAM_ID = WINNERS.TEAM_ID  
WHERE WINNERS.COMP_ID = 'A000001';
```

	TEAM_NAME	BOUNTY
1	XSPARK	5000
2	DATAVERSE	7500
3	LMAO	10000

--3. Find all the teams and their members who have registered for a specific competition with the competition ID 'C001':

```
SELECT TEAMS.*, PARTICIPANTS.*
```



```

FROM TEAMS
JOIN MAKE_TEAM ON TEAMS.TEAM_ID = MAKE_TEAM.TEAM_ID
JOIN PARTICIPANTS ON MAKE_TEAM.PARTICIPANT_ID =
PARTICIPANTS.PARTICIPANT_ID
JOIN REGISTERS ON TEAMS.TEAM_ID = REGISTERS.TEAM_ID
WHERE REGISTERS.COMP_ID = 'A000001';

```

	TEAM_ID	TEAM_NAME	PARTICIPANT_ID	F_NAME	L_NAME	COLLEGE_ID	ROLL_NUMBER	EMAIL
1	T001	XSPARK	P0001	RAHUL	SHARMA	C0015	18BCE1001	RAHUL.SHARMA@IITB.AC.IN
2	T001	XSPARK	P0005	SHIVANG	VERMA	C0013	18BCE1008	SHIVANG.VERMA@IITM.AC.IN
3	T001	XSPARK	P0009	NISHA	RAO	C0003	18BEE1005	NISHA.RAO@NITK.AC.IN
4	T001	XSPARK	P006	HIMANSHI	SINGH	C0012	18BCE0099	HIMANSHI.SINGH@IITM.AC.IN
5	T001	XSPARK	P010	MOHIT	VERMA	C0006	19BCE0234	MOHIT.VERMA@NITRKL.AC.IN
6	T001	XSPARK	P014	KARTIK	SINGH	C0001	18BCE0123	KARTIK.SINGH@NITW.AC.IN
7	T002	DEBUGGERS	P0002	SHREYA	GUPTA	C0016	18BME1005	SHREYA.GUPTA@IITD.AC.IN
8	T002	DEBUGGERS	P0006	AVNI	PATEL	C0014	18BME1002	AVNI.PATEL@IITJ.AC.IN
9	T002	DEBUGGERS	P0010	SANJANA	SINGH	C0004	18BDS1003	SANJANA.SINGH@NITS.AC.IN
10	T002	DEBUGGERS	P007	PRATIK	GANDHI	C0003	17BCE0511	PRATIK.GANDHI@NITK.AC.IN
11	T002	DEBUGGERS	P011	PRIYANKA	SHARMA	C0013	18BCE0456	PRIYANKA.SHARMA@IITM.AC.IN
12	T002	DEBUGGERS	P015	SWATI	MEHTA	C0008	19BCE0567	SWATI.MEHTA@NITKTY.AC.IN

--4. Find the total number of participants from a specific college with the college ID 'C001':

```

SELECT COUNT(*)
FROM PARTICIPANTS
WHERE PARTICIPANTS.COLLEGE_ID = 'C0001';

```

	COUNT(*)
1	2

--5. Find all the teams with their participants and colleges for a specific competition with the competition ID 'C001':

```

SELECT TEAMS.TEAM_NAME, PARTICIPANTS.*, COLLEGE.COLLEGE_NAME
FROM TEAMS
JOIN MAKE_TEAM ON TEAMS.TEAM_ID = MAKE_TEAM.TEAM_ID
JOIN PARTICIPANTS ON MAKE_TEAM.PARTICIPANT_ID =
PARTICIPANTS.PARTICIPANT_ID
JOIN COLLEGE ON PARTICIPANTS.COLLEGE_ID = COLLEGE.COLLEGE_ID

```

JOIN REGISTERS ON TEAMS.TEAM_ID = REGISTERS.TEAM_ID
WHERE REGISTERS.COMP_ID = 'A000001';

	TEAM_NAME	PARTICIPANT_ID	F_NAME	L_NAME	COLLEGE_ID	ROLL_NUMBER	EMAIL	COLLEGE_NAME
1	XSPARK	P0001	RAHUL	SHARMA	C0015	18BCE1001	RAHUL.SHARMA@IITB.AC.IN	INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY
2	XSPARK	P0005	SHIVANG	VERMA	C0013	18BCE1008	SHIVANG.VERMA@IITM.AC.IN	INDIAN INSTITUTE OF TECHNOLOGY, MADARAS
3	XSPARK	P0009	NISHA	RAO	C0003	18BEE1005	NISHA.RAO@NITK.AC.IN	NATIONAL INSTITUTE OF TECHNOLOGY, SURATKAL
4	XSPARK	P006	HIMANSHI	SINGH	C0012	18BCE0099	HIMANSHI.SINGH@IITM.AC.IN	INDIAN INSTITUTE OF TECHNOLOGY, MANDI
5	XSPARK	P010	MOHIT	VERMA	C0006	19BCE0234	MOHIT.VERMA@NITRKL.AC.IN	NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA
6	XSPARK	P014	KARTIK	SINGH	C0001	18BCE0123	KARTIK.SINGH@NITW.AC.IN	NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL
7	DEUBUGGERS	P0002	SHREYA	GUPTA	C0016	18BME1005	SHREYA.GUPTA@IITD.AC.IN	INDIAN INSTITUTE OF TECHNOLOGY, DELHI
8	DEUBUGGERS	P0006	AVNI	PATEL	C0014	18BME1002	AVNI.PATEL@IITJ.AC.IN	INDIAN INSTITUTE OF TECHNOLOGY, JAMMU
9	DEUBUGGERS	P0010	SANJANA	SINGH	C0004	18BDS1003	SANJANA.SINGH@NITS.AC.IN	NATIONAL INSTITUTE OF TECHNOLOGY, SURAT
10	DEUBUGGERS	P007	PRATIK	GANDHI	C0003	17BCE0511	PRATIK.GANDHI@NITK.AC.IN	NATIONAL INSTITUTE OF TECHNOLOGY, SURATKAL
11	DEUBUGGERS	P011	PRIYANKA	SHARMA	C0013	18BCE0456	PRIYANKA.SHARMA@IITM.AC.IN	INDIAN INSTITUTE OF TECHNOLOGY, MADARAS
12	DEUBUGGERS	P015	SWATI	MEHTA	C0008	19BCE0567	SWATI.MEHTA@NITKY.AC.IN	NATIONAL INSTITUTE OF TECHNOLOGY, KOTTAYAM

--6. Find the name of competitions which are happening in Delhi.

SELECT COMP_NAME FROM COMPETITION WHERE COMP_LOCATION = 'DELHI';

	COMP_NAME
1	HACKIT
2	SOLVER
3	VIKAS
4	VYAGANIK

--7. List the teams which have not participated in any of the competitions.

```
SELECT TEAMS.*
FROM TEAMS
WHERE TEAMS.TEAM_ID NOT IN (
    SELECT MAKE_TEAM.TEAM_ID
    FROM MAKE_TEAM
);
```

	TEAM_ID	TEAM_NAME
1	T0020	LOSERS
2	T008	LEGENDS
3	T009	DUMBS
4	T0011	HYUMANS
5	T0014	TELUGU TITANS
6	T0019	DIAMONDS
7	T0012	AVENGERS
8	T0016	SIGMA GANG
9	T0018	STONES
10	T006	WHOS THE BOSS
11	T0010	JEETA DO
12	T0015	MAMA
13	T005	HULKS TRIO
14	T007	LMAO
15	T0013	MUMBAI INDIANS
16	T0017	TLE ELIMINATORS

--8. Find the names and email addresses of judges for a competition with the ID 'A000001':

```
SELECT JF_NAME, JL_NAME, JUDGE_EMAIL
FROM JUDGE_LIST
INNER JOIN JUDGES ON JUDGE_LIST.JUDGE_ID = JUDGES.JUDGE_ID
WHERE JUDGES.COMP_ID = 'A000001';
```

	JF_NAME	JL_NAME	JUDGE_EMAIL
1	JOHN	DOE	JOHNDOE@EMAIL.COM
2	JANE	SMITH	JANESMITH@EMAIL.COM

--9. Find the total amount of sponsorship received for each competition:

```
SELECT COMPETITION.COMP_NAME, SUM(SPONSER.SPONS_AMOUNT) AS
TOTAL_SPONSORSHIP_RECEIVED
FROM COMPETITION
```

LEFT JOIN SPONSERSHIPS ON COMPETITION.COMP_ID =
SPONSERSHIPS.COMP_ID

LEFT JOIN SPONSER ON SPONSERSHIPS.SPONS_ID = SPONSER.SPONS_ID
GROUP BY COMPETITION.COMP_NAME;

	COMP_NAME	TOTAL_SPONSORSHIP_RECEIVED
1	KAUN BANEGA AMBANI	20000
2	TRUE LEADER	90000
3	HULT-PRIZE	90000
4	VYAGANIK	50000
5	HACKIT	70000
6	KHILADI	40000
7	THE X FACTOR	50000
8	FLIPKART CHALLENGE	20000
9	STONKS	20000
10	WINNERS	80000
11	MATHOPEDIA	20000
12	FIREFLY	70000
13	VIKAS	20000
14	HACKERS	135000
15	KASER CHALLENGER	45000
16	UBERSHE	20000
17	CONSORTIUM	70000
18	CHANAKYA	80000
19	SOLVER	10000
20	MYSTERY	70000
21	TRINIT	45000

--10. Find the teams that have not yet registered for any competition:

SELECT TEAMS.TEAM_ID, TEAMS.TEAM_NAME
FROM TEAMS

LEFT JOIN REGISTERS ON TEAMS.TEAM_ID = REGISTERS.TEAM_ID
WHERE REGISTERS.COMP_ID IS NULL;

	TEAM_ID	TEAM_NAME
1	T0020	LOSERS
2	T0011	HYUMANS
3	T0014	TELUGU TITANS
4	T0019	DIAMONDS
5	T0012	AVENGERS
6	T0016	SIGMA GANG
7	T0018	STONES
8	T0015	MAMA
9	T0013	MUMBAI INDIANS
10	T0017	TLE ELIMINATORS

CONCLUSION

Creating an inter college competition database can be a useful tool for managing and organizing various aspects of the competition, such as participant registration, team formation, sponsorship management, judging, and more. By storing all relevant data in a centralized database, organizers can easily track and manage various aspects of the competition, making it easier to ensure everything runs smoothly.

In addition, the database can be used to generate various reports and analytics, such as participant statistics, team performance, sponsorship ROI, and more. This can help organizers gain valuable insights into the competition, identify areas for improvement, and make data-driven decisions.

Overall, a well-designed inter college competition database can be a powerful tool for organizing and managing a successful competition. However, it is important to ensure that the database is designed to meet the specific needs of the competition and is easy to use for all stakeholders, including organizers, participants, sponsors, and judges. With the right approach, a competition database can help ensure a fair, engaging, and successful event for everyone involved.

OUTCOMES

Creating an inter college competition database can have several positive outcomes. Some of these outcomes are:

1. **Efficient Management:** A well-designed database can provide efficient management of the competition by automating tasks such as registration, team formation, scheduling, and scoring. This can save time and resources for the organizers and judges.
2. **Accurate Records:** A database can maintain accurate records of all the competition-related information, such as the participants, teams, judges, sponsors, and winners. This can help the organizers to track the progress of the competition and make informed decisions.
3. **Improved Communication:** The database can facilitate better communication among the organizers, judges, sponsors, and participants. For example, the participants can receive timely updates about the competition schedule and rules, and the judges can communicate the scoring criteria and results to the organizers and participants.
4. **Transparency:** A well-designed database can enhance the transparency of the competition by providing equal access to information for all the stakeholders. This can help to build trust and confidence among the participants and sponsors.
5. **Evaluation:** The database can be used to evaluate the performance of the competition over time. The organizers can analyze the data to identify areas of improvement and make changes accordingly.

Overall, creating an inter college competition database can lead to a well-organized, transparent, and successful competition. It can also provide valuable insights and data that can be used to improve future competitions.

LEARNINGS

1. Database design: The process of creating a database schema and designing the relationships between tables requires a thorough understanding of database design principles. By creating an inter college competition database, one can gain practical experience in designing a database schema and optimizing the data storage and retrieval process.
2. Data modeling: The inter college competition database can help in understanding the principles of data modeling, including entity-relationship modeling and normalization. This can help in creating efficient and well-organized databases that are easy to maintain and update.
3. Query optimization: Developing queries for the database to retrieve specific data can help in understanding the principles of query optimization. One can learn to write efficient queries that can retrieve data quickly without impacting the database's performance.
4. Collaboration and teamwork: Creating a database for inter college competitions requires collaboration and teamwork among various stakeholders, including judges, sponsors, organizers, participants, and colleges. This can help in developing skills related to communication, coordination, and teamwork.
5. Data analysis: By creating a database for inter college competitions, one can analyze the data to gain insights into the performance of teams, participants, and colleges. This can help in identifying areas of improvement and developing strategies to enhance the overall performance in future competitions.

Overall, creating an inter college competition database can provide valuable learning outcomes that can be applied in various fields, including data management, analytics, and software development.