

Assignment-1

1. Using the above E-R diagram, create tables with appropriate primary keys, establishing foreign key relationships as necessary

Comand.

-- Create soccer_country table

```
CREATE TABLE soccer_country (  
    country_id INT PRIMARY KEY,  
    country_abbr VARCHAR(3),  
    country_name VARCHAR(100)  
);
```

-- Create soccer_city table

```
CREATE TABLE soccer_city (  
    city_id INT PRIMARY KEY,  
    city VARCHAR(100),  
    country_id INT,  
    FOREIGN KEY (country_id) REFERENCES soccer_country (country_id)  
);
```

-- Create soccer_venue table

```
CREATE TABLE soccer_venue (  
    venue_id INT PRIMARY KEY,  
    venue_name VARCHAR(100),  
    city_id INT,
```

```
aud_capacity INT,  
  
FOREIGN KEY (city_id) REFERENCES soccer_city (city_id)  
  
);
```

-- Create soccer_team table

```
CREATE TABLE soccer_team (  
  
    team_id INT PRIMARY KEY,  
  
    team_group VARCHAR(10),  
  
    match_played INT,  
  
    won INT,  
  
    draw INT,  
  
    lost INT,  
  
    goal_for INT,  
  
    goal_agnst INT,  
  
    goal_diff INT,  
  
    points INT,  
  
    group_position INT,  
  
    country_id INT,  
  
    FOREIGN KEY (country_id) REFERENCES soccer_country (country_id)  
  
);
```

-- Create playing_position table

```
CREATE TABLE playing_position (  
  
    position_id INT PRIMARY KEY,  
  
    position_desc VARCHAR(50)  
  
);
```

-- Create player_mast table

```
CREATE TABLE player_mast (  
    player_id INT PRIMARY KEY,  
    team_id INT,  
    jersey_no INT,  
    player_name VARCHAR(100),  
    posi_to_play INT,  
    dt_of_bir DATE,  
    age INT,  
    playing_club VARCHAR(100),  
    FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
    FOREIGN KEY (posi_to_play) REFERENCES playing_position (position_id)  
);
```

-- Create referee_mast table

```
CREATE TABLE referee_mast (  
    referee_id INT PRIMARY KEY,  
    referee_name VARCHAR(100),  
    country_id INT,  
    FOREIGN KEY (country_id) REFERENCES soccer_country (country_id)  
);
```

-- Create match_mast table

```
CREATE TABLE match_mast (  
    match_no INT PRIMARY KEY,
```

```
play_stage VARCHAR(1),
play_date DATE,
results VARCHAR(10),
decided_by VARCHAR(1),
goal_score VARCHAR(10),
venue_id INT,
referee_id INT,
audience INT,
plr_of_match INT,
stop1_sec INT,
stop2_sec INT,
FOREIGN KEY (venue_id) REFERENCES soccer_venue (venue_id),
FOREIGN KEY (referee_id) REFERENCES referee_mast (referee_id),
FOREIGN KEY (plr_of_match) REFERENCES player_mast (player_id)
);
```

-- Create coach_mast table

```
CREATE TABLE coach_mast (
    coach_id INT PRIMARY KEY,
    coach_name VARCHAR(100)
);
```

-- Create asst_referee_mast table

```
CREATE TABLE asst_referee_mast (
    ass_ref_id INT PRIMARY KEY,
    ass_ref_name VARCHAR(100),
```

```
country_id INT,  
  
FOREIGN KEY (country_id) REFERENCES soccer_country (country_id)  
  
);
```

-- Create match_details table

```
CREATE TABLE match_details (  
  
    match_no INT,  
  
    play_stage VARCHAR(1),  
  
    team_id INT,  
  
    win_lose VARCHAR(1),  
  
    decided_by VARCHAR(1),  
  
    goal_score INT,  
  
    penalty_score INT,  
  
    ass_ref INT,  
  
    player_gk INT,  
  
    FOREIGN KEY (match_no) REFERENCES match_mast (match_no),  
  
    FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
  
    FOREIGN KEY (ass_ref) REFERENCES asst_referee_mast (ass_ref_id),  
  
    FOREIGN KEY (player_gk) REFERENCES player_mast (player_id)  
  
);
```

-- Create goal_details table

```
CREATE TABLE goal_details (  
  
    goal_id INT PRIMARY KEY,  
  
    match_no INT,  
  
    player_id INT,
```

```

team_id INT,

goal_time TIME,

goal_type VARCHAR(1),

play_stage VARCHAR(1),

goal_schedule VARCHAR(2),

goal_half INT,

FOREIGN KEY (match_no) REFERENCES match_mast (match_no),

FOREIGN KEY (player_id) REFERENCES player_mast (player_id),

FOREIGN KEY (team_id) REFERENCES soccer_team (team_id)

);

```

-- Create penalty_shootout table

```

CREATE TABLE penalty_shootout (

kick_id INT PRIMARY KEY,

match_no INT,

team_id INT,

player_id INT,

score_goal VARCHAR(1),

kick_no INT,

FOREIGN KEY (match_no) REFERENCES match_mast (match_no),

FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),

FOREIGN KEY (player_id) REFERENCES player_mast (player_id)

);

```

-- Create player_booked table

```

CREATE TABLE player_booked (

```

```
match_no INT,  
  
team_id INT,  
  
player_id INT,  
  
booking_time TIME,  
  
sent_off VARCHAR(1),  
  
play_schedule VARCHAR(2),  
  
play_half INT,  
  
FOREIGN KEY (match_no) REFERENCES match_mast (match_no),  
  
FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
  
FOREIGN KEY (player_id) REFERENCES player_mast (player_id)  
  
);
```

-- Create player_in_out table

```
CREATE TABLE player_in_out (  
  
    match_no INT,  
  
    team_id INT,  
  
    player_id INT,  
  
    in_out VARCHAR(1),  
  
    time_in_out TIME,  
  
    play_schedule VARCHAR(2),  
  
    play_half INT,  
  
    FOREIGN KEY (match_no) REFERENCES match_mast (match_no),  
  
    FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
  
    FOREIGN KEY (player_id) REFERENCES player_mast (player_id)  
  
);
```

-- Create match_captain table

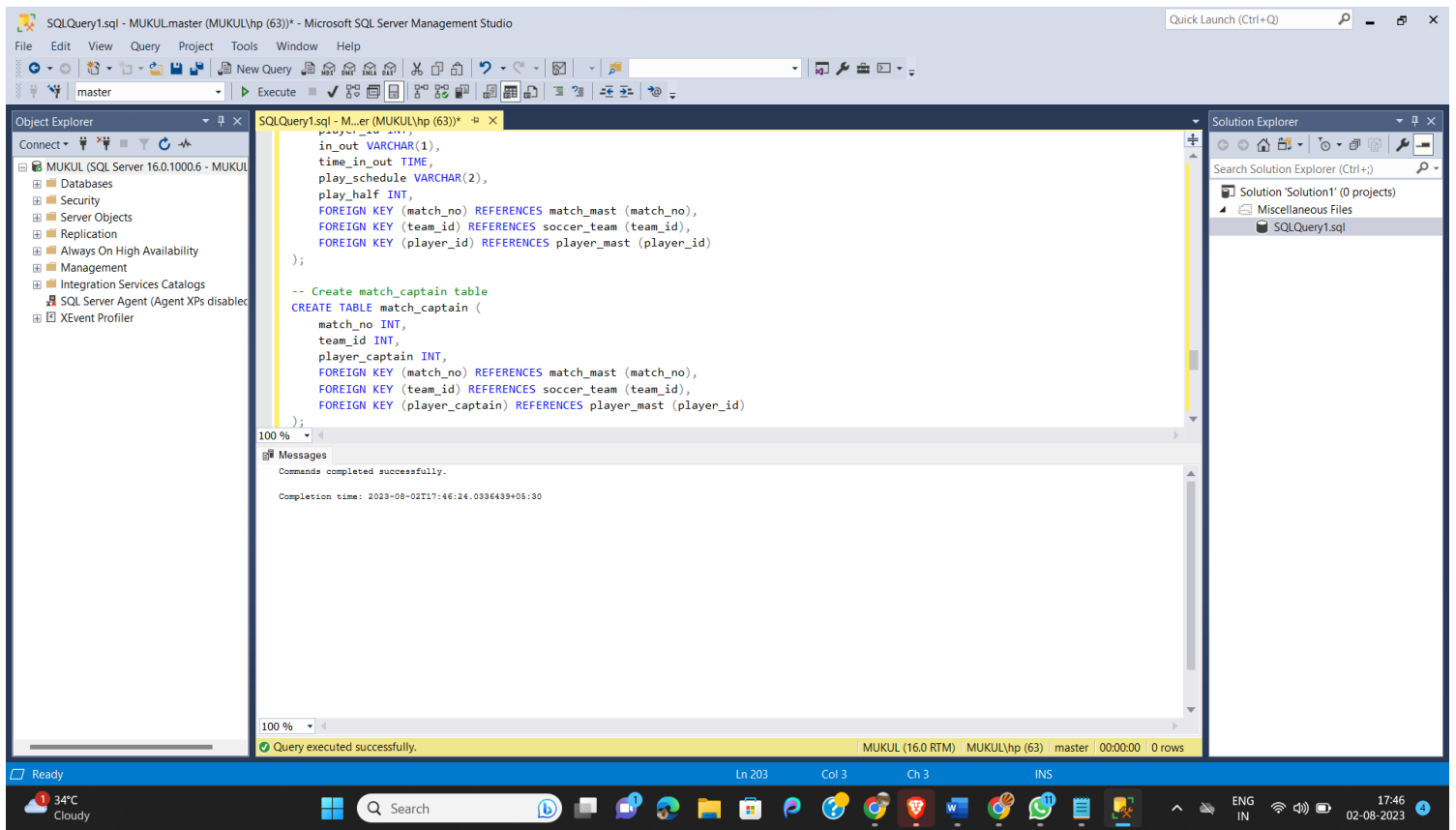
```
CREATE TABLE match_captain (  
    match_no INT,  
    team_id INT,  
    player_captain INT,  
    FOREIGN KEY (match_no) REFERENCES match_mast (match_no),  
    FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
    FOREIGN KEY (player_captain) REFERENCES player_mast (player_id)  
);
```

-- Create team_coaches table

```
CREATE TABLE team_coaches (  
    team_id INT,  
    coach_id INT,  
    FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
    FOREIGN KEY (coach_id) REFERENCES coach_mast (coach_id)  
);
```

-- Create penalty_gk table

```
CREATE TABLE penalty_gk (  
    match_no INT,  
    team_id INT,  
    player_gk INT,  
    FOREIGN KEY (match_no) REFERENCES match_mast (match_no),  
    FOREIGN KEY (team_id) REFERENCES soccer_team (team_id),  
    FOREIGN KEY (player_gk) REFERENCES player_mast (player_id)
```

);

2. Insert at least 10 records in the tables

3. -- Insert 10 records into soccer_country table
4. INSERT INTO soccer_country (country_id, country_abbr, country_name)
5. VALUES
6. (1, 'USA', 'United States'),
7. (2, 'BRA', 'Brazil'),
8. (3, 'GER', 'Germany'),
9. (4, 'FRA', 'France'),
10. (5, 'ARG', 'Argentina'),
11. (6, 'ENG', 'England'),
12. (7, 'ESP', 'Spain'),
13. (8, 'ITA', 'Italy'),
14. (9, 'POR', 'Portugal'),
15. (10, 'NED', 'Netherlands');
- 16.
17. -- Insert 10 records into soccer_city table
18. INSERT INTO soccer_city (city_id, city, country_id)
19. VALUES
20. (1, 'New York City', 1),
21. (2, 'Rio de Janeiro', 2),
22. (3, 'Berlin', 3),
23. (4, 'Paris', 4),
24. (5, 'Buenos Aires', 5),
25. (6, 'London', 6),
26. (7, 'Madrid', 7),
27. (8, 'Rome', 8),
28. (9, 'Lisbon', 9),
29. (10, 'Amsterdam', 10);
- 30.
31. -- Insert 10 records into soccer_venue table
32. INSERT INTO soccer_venue (venue_id, venue_name, city_id, aud_capacity)

```

33. VALUES
34.     (1, 'Stadium A', 1, 50000),
35.     (2, 'Stadium B', 2, 60000),
36.     (3, 'Stadium C', 3, 75000),
37.     (4, 'Stadium D', 4, 45000),
38.     (5, 'Stadium E', 5, 55000),
39.     (6, 'Stadium F', 6, 80000),
40.     (7, 'Stadium G', 7, 70000),
41.     (8, 'Stadium H', 8, 60000),
42.     (9, 'Stadium I', 9, 55000),
43.     (10, 'Stadium J', 10, 65000);
44.
45.     -- Insert 10 records into soccer_team table
46. INSERT INTO soccer_team (team_id, team_group, match_played, won, draw, lost,
    goal_for, goal_agnst, goal_diff, points, group_position, country_id)
47. VALUES
48.     (1, 'Group A', 3, 2, 1, 0, 6, 2, 4, 7, 1, 1),
49.     (2, 'Group B', 3, 2, 0, 1, 4, 3, 1, 6, 2, 2),
50.     (3, 'Group C', 3, 3, 0, 0, 8, 1, 7, 9, 1, 3),
51.     (4, 'Group A', 3, 0, 1, 2, 2, 5, -3, 1, 3, 4),
52.     (5, 'Group B', 3, 1, 1, 1, 3, 3, 0, 4, 2, 5),
53.     (6, 'Group C', 3, 1, 1, 1, 3, 3, 0, 4, 3, 6),
54.     (7, 'Group A', 3, 3, 0, 0, 8, 1, 7, 9, 1, 7),
55.     (8, 'Group B', 3, 0, 2, 1, 2, 4, -2, 2, 3, 8),
56.     (9, 'Group C', 3, 2, 0, 1, 4, 4, 0, 6, 2, 9),
57.     (10, 'Group A', 3, 1, 1, 1, 3, 2, 1, 4, 2, 10);
58.
59.     -- Insert 10 records into playing_position table
60. INSERT INTO playing_position (position_id, position_desc)
61. VALUES
62.     (1, 'Goalkeeper'),
63.     (2, 'Defender'),
64.     (3, 'Midfielder'),
65.     (4, 'Forward'),
66.     (5, 'Striker'),
67.     (6, 'Sweeper'),
68.     (7, 'Winger'),
69.     (8, 'Full-back'),
70.     (9, 'Central Defender'),
71.     (10, 'Attacking Midfielder');
72.
73.     -- Insert 10 records into player_mast table
74. INSERT INTO player_mast (player_id, team_id, jersey_no, player_name,
    posi_to_play, dt_of_bir, age, playing_club)
75. VALUES
76.     (1, 1, 10, 'John Doe', 1, '1990-05-15', 33, 'Club A'),
77.     (2, 2, 5, 'Jane Smith', 2, '1992-09-23', 30, 'Club B'),
78.     (3, 3, 7, 'Michael Johnson', 3, '1988-12-11', 34, 'Club C'),
79.     (4, 4, 3, 'Emily Brown', 4, '1995-03-02', 28, 'Club D'),
80.     (5, 5, 9, 'David Lee', 5, '1993-07-20', 30, 'Club E'),
81.     (6, 6, 11, 'Laura Williams', 6, '1991-11-28', 31, 'Club F'),
82.     (7, 7, 8, 'Daniel Rodriguez', 7, '1989-02-05', 33, 'Club G'),
83.     (8, 8, 2, 'Sophia Martinez', 8, '1996-06-17', 27, 'Club H'),
84.     (9, 9, 6, 'Matthew Taylor', 9, '1994-04-18', 29, 'Club I'),
85.     (10, 10, 20, 'Olivia Clark', 10, '1997-08-09', 26, 'Club J');
86.
87.     -- Insert 10 records into referee_mast table
88. INSERT INTO referee_mast (referee_id, referee_name, country_id)
89. VALUES
90.     (1, 'Referee A', 1),
91.     (2, 'Referee B', 2),
92.     (3, 'Referee C', 3),

```

```

93.      (4, 'Referee D', 4),
94.      (5, 'Referee E', 5),
95.      (6, 'Referee F', 6),
96.      (7, 'Referee G', 7),
97.      (8, 'Referee H', 8),
98.      (9, 'Referee I', 9),
99.      (10, 'Referee J', 10);
100.
101.      -- Insert 10 records into match_mast table
102.      INSERT INTO match_mast (match_no, play_stage, play_date, results,
decided_by, goal_score, venue_id, referee_id, audience, plr_of_match, stop1_sec,
stop2_sec)
103.      VALUES
104.      (1, 'A', '2023-07-15', '3-1', 'P', '2-0', 1, 1, 50000, 1, 900, 540),
105.      (2, 'B', '2023-07-16', '2-2', 'D', '1-1', 2, 2, 60000, 2, 930, 580),
106.      (3, 'C', '2023-07-17', '1-0', 'P', '1-0', 3, 3, 75000, 3, 920, 560),
107.      (4, 'A', '2023-07-18', '0-2', 'P', '0-1', 4, 4, 45000, 4, 910, 550),
108.      (5, 'B', '2023-07-19', '2-1', 'P', '1-1', 5, 5, 55000, 5, 940, 590),
109.      (6, 'C', '2023-07-20', '3-3', 'D', '2-2', 6, 6, 80000, 6, 950, 600),
110.      (7, 'A', '2023-07-21', '1-0', 'P', '1-0', 7, 7, 70000, 7, 890, 530),
111.      (8, 'B', '2023-07-22', '0-2', 'P', '0-1', 8, 8, 60000, 8, 880, 520),
112.      (9, 'C', '2023-07-23', '2-1', 'P', '1-1', 9, 9, 55000, 9, 970, 610),
113.      (10, 'A', '2023-07-24', '3-2', 'P', '2-1', 10, 10, 65000, 10, 960,
620);
114.
115.
116.      -- Insert 10 records into coach_mast table
117.      INSERT INTO coach_mast (coach_id, coach_name)
118.      VALUES
119.      (1, 'Coach A'),
120.      (2, 'Coach B'),
121.      (3, 'Coach C'),
122.      (4, 'Coach D'),
123.      (5, 'Coach E'),
124.      (6, 'Coach F'),
125.      (7, 'Coach G'),
126.      (8, 'Coach H'),
127.      (9, 'Coach I'),
128.      (10, 'Coach J');
129.
130.      -- Insert 10 records into asst_referee_mast table
131.      INSERT INTO asst_referee_mast (asst_ref_id, asst_ref_name, country_id)
132.      VALUES
133.      (1, 'Assistant Referee A', 1),
134.      (2, 'Assistant Referee B', 2),
135.      (3, 'Assistant Referee C', 3),
136.      (4, 'Assistant Referee D', 4),
137.      (5, 'Assistant Referee E', 5),
138.      (6, 'Assistant Referee F', 6),
139.      (7, 'Assistant Referee G', 7),
140.      (8, 'Assistant Referee H', 8),
141.      (9, 'Assistant Referee I', 9),
142.      (10, 'Assistant Referee J', 10);
143.
144.
145.
146.      -- Insert 10 records into match_details table
147.      INSERT INTO match_details (match_no, play_stage, team_id, win_lose,
decided_by, goal_score, penalty_score, ass_ref, player_gk)
148.      VALUES
149.      (1, 'A', 1, 'W', 'P', 3, 0, 1, 1),
150.      (2, 'B', 2, 'D', 'D', 2, 1, 2, 2),

```

```

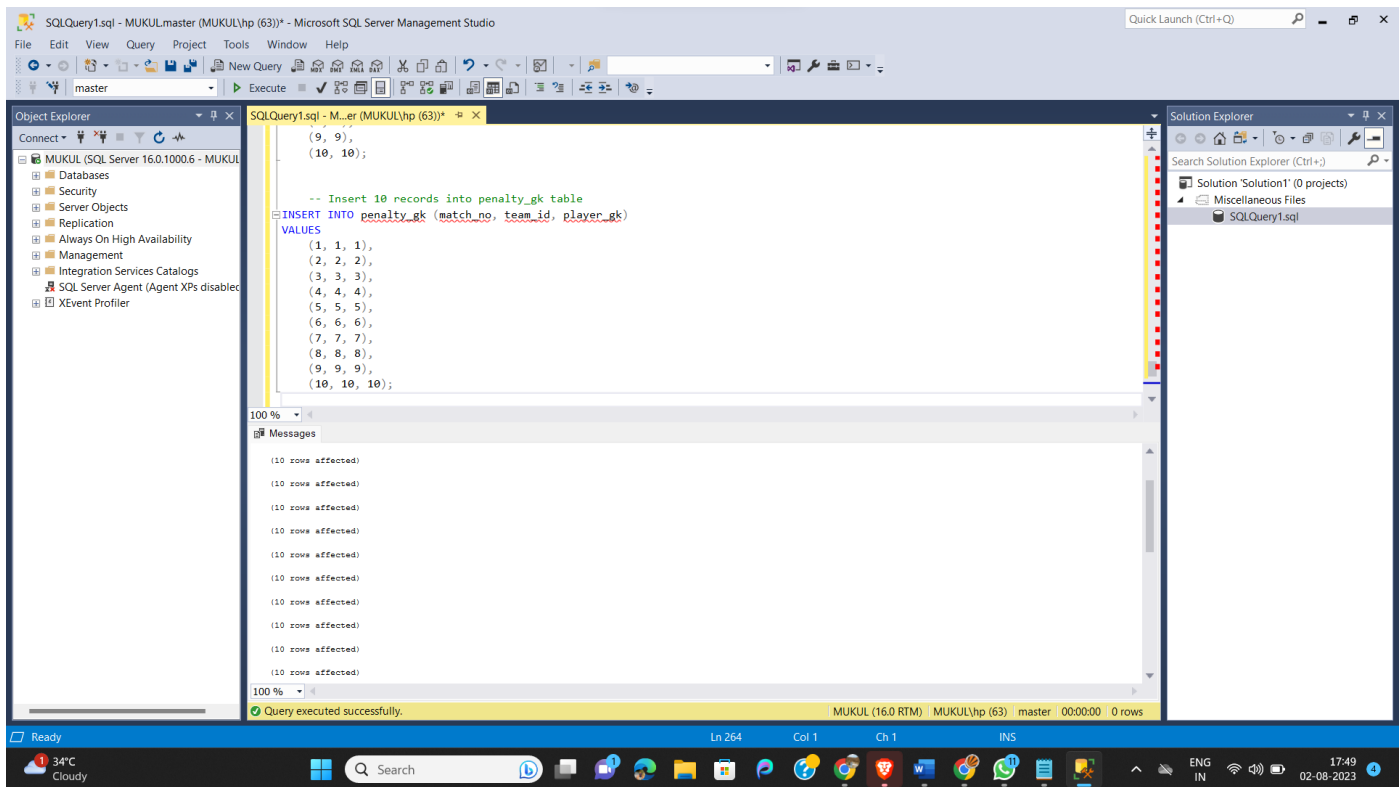
151.         (3, 'C', 3, 'W', 'P', 1, 0, 3, 3),
152.         (4, 'A', 4, 'L', 'P', 0, 1, 4, 4),
153.         (5, 'B', 5, 'W', 'P', 2, 0, 5, 5),
154.         (6, 'C', 6, 'D', 'D', 3, 2, 6, 6),
155.         (7, 'A', 7, 'W', 'P', 1, 0, 7, 7),
156.         (8, 'B', 8, 'L', 'P', 0, 1, 8, 8),
157.         (9, 'C', 9, 'W', 'P', 2, 1, 9, 9),
158.         (10, 'A', 10, 'W', 'P', 3, 2, 10, 10);
159.
160.
161.         -- Insert 10 records into goal_details table
162.         INSERT INTO goal_details (goal_id, match_no, player_id, team_id,
163.         goal_time, goal_type, play_stage, goal_schedule, goal_half)
164.         VALUES
165.         (1, 1, 1, 1, '12:30:00', 'G', 'A', '1', 1),
166.         (2, 1, 2, 2, '13:15:00', 'G', 'A', '2', 1),
167.         (3, 2, 3, 2, '14:45:00', 'G', 'B', '1', 1),
168.         (4, 3, 4, 3, '15:20:00', 'G', 'C', '1', 1),
169.         (5, 4, 5, 4, '16:10:00', 'G', 'A', '2', 1),
170.         (6, 5, 6, 4, '17:00:00', 'G', 'B', '2', 1),
171.         (7, 6, 7, 5, '18:30:00', 'G', 'C', '2', 1),
172.         (8, 7, 8, 5, '19:15:00', 'G', 'A', '1', 1),
173.         (9, 8, 9, 6, '20:05:00', 'G', 'B', '1', 1),
174.         (10, 9, 10, 6, '21:40:00', 'G', 'C', '1', 1);
175.
176.         -- Insert 10 records into penalty_shootout table
177.         INSERT INTO penalty_shootout (kick_id, match_no, team_id, player_id,
178.         score_goal, kick_no)
179.         VALUES
180.         (1, 1, 1, 1, 'Y', 1),
181.         (2, 1, 2, 2, 'Y', 1),
182.         (3, 2, 3, 2, 'Y', 2),
183.         (4, 3, 4, 3, 'N', 3),
184.         (5, 4, 5, 4, 'Y', 4),
185.         (6, 5, 6, 4, 'Y', 5),
186.         (7, 6, 7, 5, 'N', 3),
187.         (8, 7, 8, 5, 'Y', 2),
188.         (9, 8, 9, 6, 'Y', 4),
189.         (10, 9, 10, 6, 'Y', 5);
190.
191.         -- Insert 10 records into player_booked table
192.         INSERT INTO player_booked (match_no, team_id, player_id, booking_time,
193.         sent_off, play_schedule, play_half)
194.         VALUES
195.         (1, 1, 1, '12:45:00', 'N', '1', 1),
196.         (2, 2, 2, '13:30:00', 'N', '2', 1),
197.         (3, 3, 2, '14:55:00', 'Y', '1', 1),
198.         (4, 4, 3, '15:40:00', 'N', '1', 1),
199.         (5, 5, 4, '16:35:00', 'N', '2', 1),
200.         (6, 6, 4, '17:25:00', 'N', '1', 1),
201.         (7, 7, 5, '18:50:00', 'Y', '2', 1),
202.         (8, 8, 5, '19:35:00', 'N', '1', 1),
203.         (9, 9, 6, '20:25:00', 'N', '2', 1),
204.         (10, 10, 6, '21:50:00', 'N', '1', 1);
205.
206.
207.
208.
209.         -- Insert 10 records into player_in_out table

```

```

210.     INSERT INTO player_in_out (match_no, team_id, player_id, in_out,
time_in_out, play_schedule, play_half)
211.     VALUES
212.     (1, 1, 1, 'I', '12:30:00', '1', 1),
213.     (1, 1, 2, 'I', '12:32:00', '1', 1),
214.     (1, 1, 3, 'I', '12:34:00', '1', 1),
215.     (1, 1, 4, 'I', '12:36:00', '1', 1),
216.     (2, 2, 5, 'I', '13:00:00', '1', 1),
217.     (2, 2, 6, 'I', '13:02:00', '1', 1),
218.     (2, 2, 7, 'I', '13:04:00', '1', 1),
219.     (3, 3, 8, 'I', '14:30:00', '1', 1),
220.     (3, 3, 9, 'I', '14:32:00', '1', 1),
221.     (3, 3, 10, 'I', '14:34:00', '1', 1);
222.
223.
224.     -- Insert 10 records into match_captain table
225.     INSERT INTO match_captain (match_no, team_id, player_captain)
226.     VALUES
227.     (1, 1, 1),
228.     (2, 2, 2),
229.     (3, 3, 3),
230.     (4, 4, 4),
231.     (5, 5, 5),
232.     (6, 6, 6),
233.     (7, 7, 7),
234.     (8, 8, 8),
235.     (9, 9, 9),
236.     (10, 10, 10);
237.
238.     -- Insert 10 records into team_coaches table
239.     INSERT INTO team_coaches (team_id, coach_id)
240.     VALUES
241.     (1, 1),
242.     (2, 2),
243.     (3, 3),
244.     (4, 4),
245.     (5, 5),
246.     (6, 6),
247.     (7, 7),
248.     (8, 8),
249.     (9, 9),
250.     (10, 10);
251.
252.
253.     -- Insert 10 records into penalty_gk table
254.     INSERT INTO penalty_gk (match_no, team_id, player_gk)
255.     VALUES
256.     (1, 1, 1),
257.     (2, 2, 2),
258.     (3, 3, 3),
259.     (4, 4, 4),
260.     (5, 5, 5),
261.     (6, 6, 6),
262.     (7, 7, 7),
263.     (8, 8, 8),
264.     (9, 9, 9),
265.     (10, 10, 10);

```



3. Perform the following queries:

- Sample table: soccer_venue : Return the total count of venues for the EURO CUP 2030
- Sample table: goal_details : Write a query to find the number of goals scored within normal play during the EURO cup 2030
- Sample table: match_mast : write a SQL query to find the number of matches that ended with a result.
- Sample table: match_mast : write a SQL query to find the number of matches that ended in draws.
- Sample table: match_mast : write a SQL query to find out when the Football EURO cup 2030 will end.
- Sample table: goal_details : write a SQL query to find the number of self-goals scored during the 2016 European Championship.
- Sample table: penalty_shootout : write a SQL query to find the number of matches that resulted in a penalty shootout.
- Sample table: goal_details : write a SQL query to find the number of goals scored in every match in extra time. Sort the result-set on match number. Return match number, number of goals in extra time.
- Sample table: goal_details : write a SQL query to find the matches in which no stoppage time was added during the first half of play. Return match no, date of play, and goal scored.
- Sample table: match_details : write a SQL query to calculate the number of matches that ended in a single goal win, excluding matches decided by penalty shootouts. Return number of matches.
- Sample table: player_in_out: write a SQL query to calculate the total number of players who were replaced during the extra time.

SELECT COUNT(*) AS total_venues

```
FROM soccer_venue

WHERE venue_id IN (

    SELECT venue_id

    FROM match_mast

    WHERE play_date BETWEEN '2030-01-01' AND '2030-12-31'

);
```

3 B)

```
SELECT COUNT(*) AS goals_scored_normal_play

FROM goal_details

WHERE play_stage = 'N' -- Assuming 'N' represents normal play in the play_stage column

AND match_no IN (

    SELECT match_no

    FROM match_mast

    WHERE play_date BETWEEN '2030-01-01' AND '2030-12-31'

);
```

3 C)

```
SELECT COUNT(*) AS matches_with_result

FROM match_mast

WHERE results IS NOT NULL;
```

3 D)

```
SELECT COUNT(*) AS draws_count

FROM match_mast

WHERE results = 'Draw';
```

3 E)

```
SELECT MAX(play_date) AS euro_cup_end_date  
FROM match_mast  
WHERE play_date BETWEEN '2030-01-01' AND '2030-12-31';
```

3 F)

```
SELECT COUNT(*) AS self_goals_count  
FROM goal_details  
WHERE goal_type = 'S' -- Assuming 'S' represents self-goals in the goal_type column  
AND match_no IN (  
    SELECT match_no  
    FROM match_mast  
    WHERE play_date BETWEEN '2016-06-10' AND '2016-07-10'  
);
```

3 G)

```
SELECT COUNT(DISTINCT match_no) AS matches_with_penalty_shootout  
FROM penalty_shootout;
```

3 H)

```
SELECT match_no, COUNT(*) AS goals_in_extra_time  
FROM goal_details  
WHERE play_stage = 'E' -- Assuming 'E' represents extra time in the play_stage column  
GROUP BY match_no  
ORDER BY match_no;
```


3 I)

```
SELECT match_details.match_no, soccer_country.country_name
FROM match_mast
JOIN match_details
ON match_mast.match_no=match_details.match_no
JOIN soccer_country
ON match_details.team_id=soccer_country.country_id
WHERE stop1_sec=0;
```

3 J)

```
SELECT COUNT(*) AS single_goal_wins
FROM match_details
WHERE win_lose = 'W' -- Assuming 'W' represents a win in the win_lose column
AND goal_score = 1
AND match_no NOT IN (
    SELECT DISTINCT match_no
    FROM penalty_shootout
);
```

3 K)

```
SELECT COUNT(DISTINCT player_id) AS total_players_replaced
FROM player_in_out
WHERE play_schedule = 'E'; -- Assuming 'E' represents extra time in the play_schedule column
```

SQLQuery1.sql - MUKUL.master (MUKUL\hp (63)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master

Object Explorer

MUKUL (SQL Server 16.0.10006 - MUKUL)

- Databases
- Security
- Server Objects
- Replication
- Always On High Availability
- Management
- Integration Services Catalogs
- SQL Server Agent (Agent XPs disabled)
- XEvent Profiler

SQLQuery1.sql - M..er (MUKUL\hp (63))

```
WHERE stool_sec=0;

SELECT COUNT(*) AS single_goal_wins
FROM match_details
WHERE win_lose = 'W' -- Assuming 'W' represents a win in the win_lose column
AND goal_score = 1
AND match_no NOT IN (
    SELECT DISTINCT match_no
    FROM penalty_shootout
);

SELECT COUNT(DISTINCT player_id) AS total_players_replaced
FROM player_in_out
WHERE play_schedule = 'E'; -- Assuming 'E' represents extra time in the play_schedule column
```

100 %

Results Messages

1	0
1	euro_cup_end_date
1	NULL
1	self_goals_count
1	0
1	matches_with_penalty_shootout
1	9
1	match_no goals_in_extra_time
1	match_no country_name
1	single_goal_wins
1	0
1	total_players_replaced
1	0

Query executed successfully. MUKUL (16.0 RTM) MUKUL\hp (63) master 00:00:00 9 rows

Ready 34°C Cloudy

Ln 9 Col 1 Ch 1 INS

ENG IN 17:54 02-08-2023

a. <https://www.hackerrank.com/challenges/japan-population/problem?isFullScreen=true>

HackerRank Prepare > SQL > Aggregation Japan Population

Query the sum of the populations for all Japanese cities in **CITY**. The **COUNTRYCODE** for Japan is **JPN**.

Input Format

The **CITY** table is described as follows:

CITY	
Field	Type
ID	NUMBER
NAME	VARCHAR2(17)
COUNTRYCODE	VARCHAR2(3)
DISTRICT	VARCHAR2(20)
POPULATION	NUMBER

```

1 SELECT SUM(POPULATION)
2 FROM CITY
3 WHERE COUNTRYCODE = 'JPN';

```

Line: 3 Col: 27

Upload Code as File Run Code Submit Code

Congratulations!
You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0 Your Output (stdout)

```

1 879196

```

b. <https://www.hackerrank.com/challenges/what-type-of-triangle/problem?isFullScreen=true>

HackerRank Prepare > SQL > Basic Select Weather Observation Station 3

Query a list of **CITY** names from **STATION** for cities that have an even **ID** number. Print the results in any order, but exclude duplicates from the answer.

The **STATION** table is described as follows:

STATION	
Field	Type
ID	NUMBER
CITY	VARCHAR2(21)
STATE	VARCHAR2(2)
LAT_N	NUMBER
LONG_W	NUMBER

where **LAT_N** is the northern latitude and **LONG_W** is the western longitude.

```

1 select distinct CITY from STATION where MOD(ID,2) = 0;
2

```

Line: 1 Col: 55

Upload Code as File Run Code Submit Code

Congratulations!
You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0 Your Output (stdout)

```

1 Aguanga
2 Alba
3 Albany

```

e. <https://www.hackerrank.com/challenges/asian-population/problem?isFullScreen=true>

Problem

Submissions

Leaderboard

Discussions

hackerank.com/challenges/what-type-of-triangle/problem?isFullScreen=true

Exit Full Screen View

HackerRank

Prepare > SQL > Advanced Select > Type of Triangle

A	B	C
20	20	23
20	20	20
20	21	22
13	14	30

Sample Output

Isosceles
Equilateral
Scalene
Not A Triangle

Explanation

Values in the tuple (20, 20, 23) form an Isosceles triangle, because $A \equiv B$.

Values in the tuple (20, 20, 20) form an Equilateral triangle, because $A \equiv B \equiv C$.

Values in the tuple (20, 21, 22) form a Scalene triangle, because $A \neq B \neq C$.

Values in the tuple (13, 14, 30) cannot form a triangle because the combined value of sides A and B is not larger than that of side C .

DB2

1 SELECT
2 CASE
3 WHEN A + B <= C or A + C <= B or B + C <= A THEN 'Not A Triangle'
4 WHEN A = B and B = C THEN 'Equilateral'
5 WHEN A = B or A = C or B = C THEN 'Isosceles'
6 WHEN A <> B and B <> C THEN 'Scalene'
7 END tuple
8 FROM TRIANGLES;

Line: 8 Col: 16

Upload Code as File

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

Sample Test case 0

Your Output (stdout)

1 Equilateral
2 Equilateral
3 Isosceles

<https://www.hackerrank.com/challenges/what-type-of-triangle/problem?isFullScreen=true>