Database Assignment No#3 Part A "Design" Ahmed Baig | 20I-1884 Ahmed Nasim | 18I-0465 Section G

1. Entities/Tables:

- players (pid, first_name, last_name, nationality, dob)
- player_stats (pid, team_id, jy_num, position, height, weight, foot)
- teams (team_id, team_name, country, stadium)
- managers (mid, first_name, last_name, nationality, dob, team)
- stadiums (sid, name, city, country, capacity)
- tournaments (tour id, tour name, season, location)
- matches (match_id, tour, date_time, home_team, away_team, stadium)
- match_report (match_id, pso, ht_score, at_score, attendance)
- goals (goal id, match id, pid, duration, assist, goal desc)

2. Constraints:

- players: pid (Primary Key)
- player stats: pid (Foreign Key to players), team id (Foreign Key to teams)
- teams: team id (Primary Key), stadium (Foreign Key to stadiums)
- managers: mid (Primary Key), team (Foreign Key to teams)
- stadiums: sid (Primary Key)
- tournaments: tour id (Primary Key)
- matches: match_id (Primary Key), tour (Foreign Key to tournaments),
 home_team (Foreign Key to teams), away_team (Foreign Key to teams), stadium (Foreign Key to stadiums)
- match report: match id (Foreign Key to matches)
- goals: goal_id (Primary Key), match_id (Foreign Key to matches), pid (Foreign Key to players), assist (Foreign Key to players)

3. Functional Dependences:

- players: pid -> first_name, last_name, nationality, dob
- player stats: (pid, team id) -> jy num, position, height, weight, foot

- teams: team id -> team name, country, stadium
- managers: mid -> first name, last name, nationality, dob, team
- stadiums: sid -> name, city, country, capacity
- tournaments: tour id -> tour name, season, location
- matches: match_id -> tour, date_time, home_team, away_team, stadium
- match_report: match_id -> pso, ht_score, at_score, attendance
- goals: goal id -> match id, pid, duration, assist, goal desc

4. Normalization:

- players (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.
- player_stats (3NF) All attributes are dependent on the composite primary key (pid, team_id), and there are no transitive dependencies.
- teams (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.
- managers (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.
- stadiums (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.
- tournaments (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.
- matches (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.
- match_report (3NF) All attributes are dependent on the foreign key (match_id), and there are no transitive dependencies.
- goals (3NF) All attributes are dependent on the primary key, and there are no transitive dependencies.

Outputs

Q1.

s %	4				
⊞ Results ஓ Messages					
	pid	first_name	last_name	nationality	dob
	ply639	Scott	Carson	England	1985-09-03
	ply640		Ederson	Brazil	1993-08-17
	ply641	Stefan	Ortega	Germany	1992-11-06
	ply642	Manuel	Akanji	Switzerland	1995-07-19
	ply643	Nathan	Aké	Netherlands	1995-02-18
	ply644	João	Cancelo	Portugal	1994-05-27
	ply645	Aymeric	Laporte	Spain	1994-05-27
	ply647	Benjamin	Mendy	France	1994-07-17
	ply648	Rúben	Dias	Portugal	1997-05-14
0	ply649	John	Stones	England	1994-05-28
1	ply650	Kyle	Walker	England	1990-05-28
2	ply651	Josh	Wilson-Esbrand	England	2002-12-26
3	ply652	Bernardo	Silva	Portugal	1994-08-10
Q	uery exe	cuted succe	essfully.		

Q2.



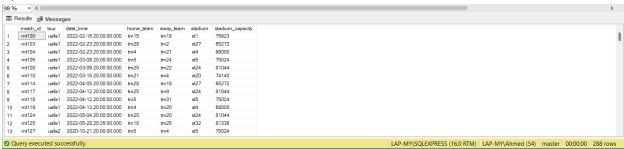
Q3.



Q4.



Q5.

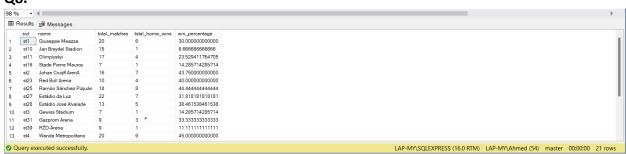


Q6.



Q7.

Q8.



Q9.

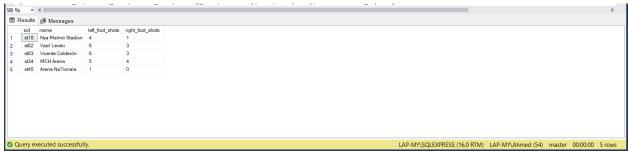


Q10.

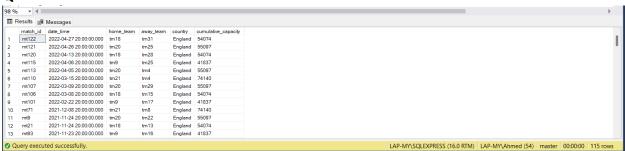
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Results in Messages

| Results in Messages | Results in Autonolity | Results i
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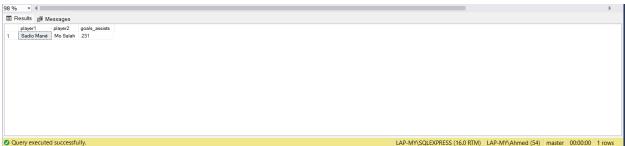
Q11.



Q12.



Q13.



Q14.



Q15.

