**Q2.**

**Part B**

**Functional Dependencies**

**TABLE TEAMS**

id → team\_name, country, home\_stadium\_id (fully dependent)

**TABLE STADIUMS**

id -> name, city, country, capacity (fully dependent)

This table is fully dependent, as all the attributes are functionally dependent on the primary key (id).

**TABLE PLAYERS**

player\_id -> {first\_name, last\_name, nationality, dob, team\_id, JERSEY\_NUMBER, position, player\_height, player\_weight, player\_foot} (fully dependent)

**MANAGERS**

manager\_id → first\_name, last\_name, nationality, dob, team\_id

**MATCHES**

match\_id -> season, Date\_time, home\_team\_id, away\_team\_id, home\_team\_score, away\_team\_score, PENALTY\_SHOOT\_OUT, ATTENDANCE

**GOALS**

goal\_id -> match\_id, PID, Duration, ASSIST, Goal\_DESC (fully dependent)

PID -> Goal\_DESC (partially dependent)

ASSIST -> Goal\_DESC (partially dependent)

***Q3*** -----------------

All the tables are in their normal form up to 2NF, as we have not studied 3NF until now, we can’t normalize the table to 3nf.

names -> {capacity, country} in the stadium table can cause issues of transivity where therefore capacity is transitively dependent on ID through name etc.

**QUERIES SCREENSHOTS**

