DATABASE PROJECT REPORT BRANDON DOOLEY #16327446 TRINITY COLLEGE DUBLIN

Introduction

As part of the CS3041 Information Management database design project I decided to model a database representing the top 10 teams in the Barclays Premier League as of Thursday the 1st November 2018.

The relational tables that I chose to model are as follows:

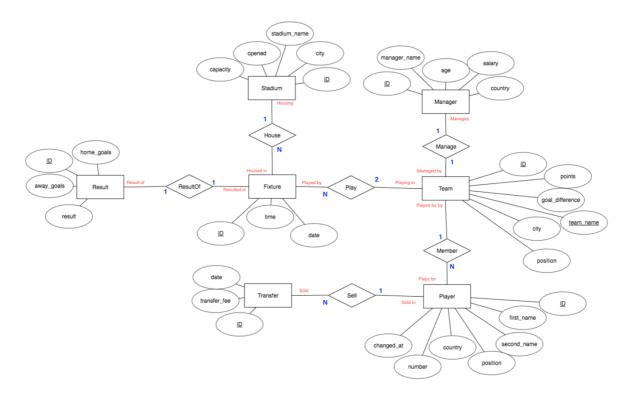
- Fixture
- Manager
- Player
- Stadium
- Team
- Transfer
- Result

Within the database I modelled all fixtures from Sunday 11th of November up to Saturday the 8th of December. This was done to allow for me to continuously input the results of these fixtures into the database in order to demonstrate the use of my designed triggers and the effect they have on other relations within the database.

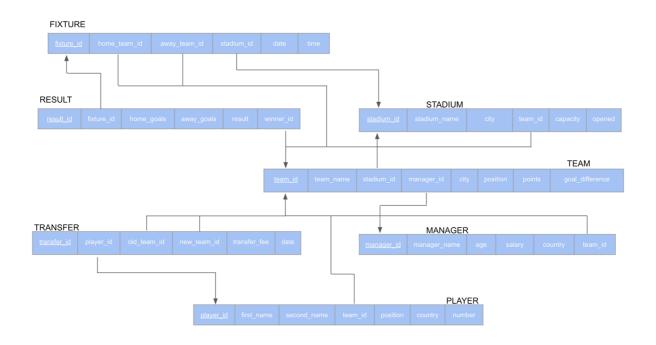
Within the players table I modelled five players from each of the teams including a goalkeeper, defender, midfielder and two forwards for each team. The data regarding stadiums and managers is valid as of Sunday 11th of November.

All data regarding transfers is fictional and does not represent any real transfer that has occurred in the premier league within this period. They also solely serve the purpose of demonstrating the use of the designed triggers and their respective effects.

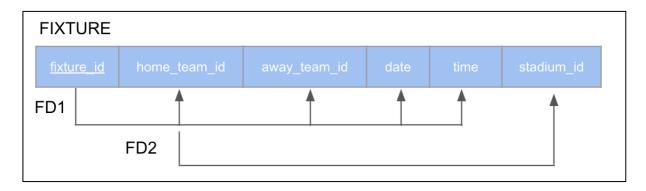
Entity Relationship Diagram



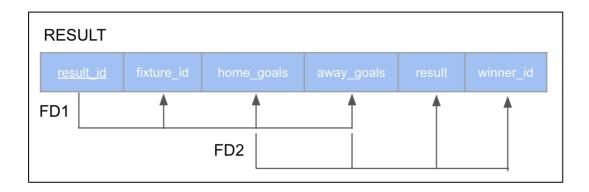
Relational Schema Diagram



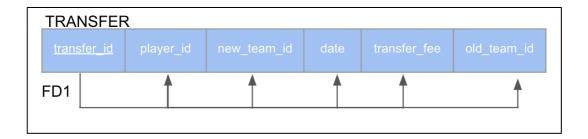
Functional Dependency Diagrams



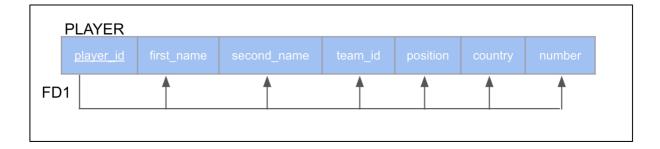
- Primary Key: fixture id
- Foreign Keys: {home_team_id, away_team_id, stadium_id}



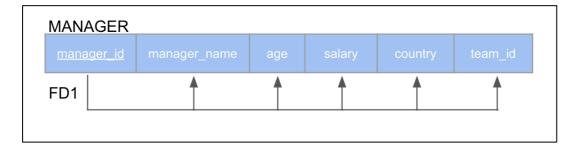
- Primary Key: result id
- Foreign Keys: {fixture_id, winner_id}



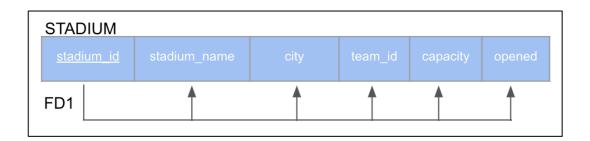
- Primary Key: transfer id
- Foreign Keys: {player_id, new_team_id, old_team_id}



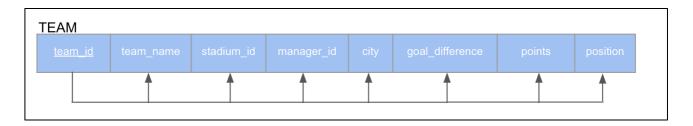
- Primary Key: player_id
- Foreign Keys: {team_id}



- Primary Key: manager_id
- Foreign Keys: {team_id}



- Primary Key: stadium_id
- <u>Foreign Keys:</u> {team_id}



• Primary Key: team_id

• Foreign Keys: {stadium_id, manager_id}

Semantic Constraints

<u>Fixture</u>	
Attribute	Constraints
fixture_id (PK)	Int (11), NOT NULL, AUTO_INCREMENT, UNIQUE
home_team_id (FK)	Smallint (6), NOT NULL
away_team_id (FK)	Smallint (6), NOT NULL
stadium_id (FK)	Smallint (6), NOT NULL
date	Date, NOT NULL
time	Time, NOT NULL
home_team_id (FK) -> Team.team_id away_team_id (FK) -> Team.team_id stadium_id (FK) -> Stadium.stadium_id	

For *fixture_id* I chose to use int() as the storage type since there could be over 32,767 entries of fixtures which is the maximum provided by smallint(). I chose to use the Date and Time data types to store the date and time of a fixture as they would ensure the validity of their formatting.

<u>Player</u>		
Attribute	Constraints	
player_id (PK)	Int (11), NOT NULL, AUTO_INCREMENT, UNIQUE	
first_name	Varchar(15), NOT NULL	
second_name	Varchar(15), NOT NULL	
position	Varchar(10), NOT NULL	
country	Varchar(10), NOT NULL	
team_id (FK)	Smallint (6), NOT NULL	
number	Tinyint(4) NOT NULL	
team_id (FK) -> Team.team_id		

For *player_id* I chose to use int() as the storage type since there could be over 32,767 entries of players which is the maximum provided by smallint(). I chose to use varchar of size 15

and 10 to represent player names, positions and countries and I felt this size would suffice. For *team id* I used smallint() as I believe there will be less than 32,767 entries of teams.

<u>Manager</u>	
Attribute	Constraints
manager_id (PK)	smallint (6), NOT NULL, AUTO_INCREMENT, UNIQUE
manager_name	Varchar(25), NOT NULL
age	Tinyint (4), NOT NULL
salary	Int (11), NOT NULL
country	Varchar(10), NOT NULL
team_id (FK)	Smallint (6), NOT NULL
team_id (FK) -> Team.team_id	

For *manager_id* I chose to use int() as the storage type since there could be over 32,767 entries of managers which is the maximum provided by smallint(). For *age* I used tinyint() as it is extremely unlikely a manager will be older than 255. For *salary* I used an int() as a managers salary is likely to be over £32,767.

Result		
Attribute	Constraints	
result_id (PK)	Int (11), NOT NULL, AUTO_INCREMENT, UNIQUE	
fixture_id (FK)	Int (11), NOT NULL	
home_goals	Tinyint (4), NOT NULL	
away_goals	Tinyint (4), NOT NULL	
result	Varchar(4), NOT NULL	
winner_id (FK)	Smallint (6), NOT NULL	
<pre>fixture_id (FK) -> Fixture.fixture_id winner_id (FK) -> Teams.team_id</pre>		

For *result_id* I chose to use int() as the storage type since there could be over 32,767 entries of results which is the maximum provided by smallint(). For *home_goals* and *away_goals* I used tinyint() as it is extremely unlikely a given team will score more than 255 goals. For

CS3041 – INFORMATION MANAGEMENT

result I limited the varchar() storage type to 4 characters as a result will be either 'win' or 'draw'.

Attribute	Constraints
stadium_id (PK)	Smallint (6), NOT NULL, AUTO_INCREMENT, UNIQUE
stadium_name	Varchar (25), NOT NULL
city	Varchar (25), NOT NULL
capacity	Int (11), NOT NULL
opened	Smallint(6), NOT NULL
team_id (FK)	Smallint (6), NOT NULL

For *stadium_id* I chose to use smallint() as the storage type since it is unlikely for there to be over 32,767 entries of stadiums which is the maximum provided by smallint(). For *opened* I used smallint() instead of year since year only supports values after 1901 and some stadiums in the premier league were older than this.

Attribute	Constraints
eam_id (PK)	Smallint (6), NOT NULL, AUTO_INCREMENT, UNIQUE
team_name	Varchar (25), NOT NULL
stadium_id (FK)	Smallint (6), NOT NULL
manager_id (FK)	Smallint (6), NOT NULL
city	Varchar (25), NOT NULL
position	Tinyint (4), NOT NULL
points	Tinyint (4), NOT NULL
goal_difference	Smallint (6), NOT NULL

For *team_id* I chose to use smallint() as the storage type since it is unlikely for there to be over 32,767 entries of teams which is the maximum provided by smallint(). For *position* I used tinyint() as players numbers don't tend to be more than 255. For *goal_difference* I used smallint() as I needed the smallest data type available to support negative numbers.

<u>Transfer</u>		
Attribute	Constraints	
transfer_id (PK)	Smallint (6), NOT NULL, AUTO_INCREMENT, UNIQUE	
player_id (FK)	Int (11), NOT NULL	
old_team_id (FK)	Smallint (6), NOT NULL	
new_team_id (FK)	Smallint (6), NOT NULL	
transfer_fee	Int (11), NOT NULL	
date	Date, NOT NULL	
<pre>player_id (FK) -> Player.player_id new_team_id (FK) -> Team.team_id old_team_id (FK) -> Team.team_id</pre>		

For *transfer_id* I chose to use smallint() as the storage type since it is unlikely for there to be over 32,767 entries of transfers which is the maximum provided by smallint(). For *transfer_fee* I used int() as transfer fees tend to be in the millions and this was the smallest data type that supported a suitable range.

All of the above data types and constraints were chosen in order to:

- 1. Use minimal storage
- 2. Ensure validity of data entries
- 3. Ensure consistency across all relations

Database Security

The Database Security policy that I decided to implement was composed of three levels of users.

- 1. Admin: Full admin access to all tables and schemas within the database.
- 2. Read-only: Read only access to all tables and schemas within the database.
- 3. *Clerk*: User with INSERT, SELECT, UPDATE and DELETE privileges to a specific table within the schema.

Clerks would be allowed access for example to input results to fixtures within the premier league whilst not being allowed access to any other data within the database. Read-only accounts are able to see all data within the database whilst not being able to edit or insert any entries. Admins have full access to all tables within the database.

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Examples of the above users and how they were created are detailed below:

Admin

User name: admin rw

Creation command: CREATE USER 'admin rw'@'%' IDENTIFIED BY 'pw'

Privileges command: GRANT ALL PRIVILEGES ON *. * TO 'admin_rw'@'%'

Read-only

User name: *prem-read-only*

Creation command: CREATE USER 'prem-read-only'@'%' IDENTIFIED BY 'pw'

Privileges command: GRANT SELECT ON *. * TO 'prem-read-only'@'%'

Clerk

User name: result-clerk

Creation command: CREATE USER 'result-clerk'@'%' IDENTIFIED BY 'pw'

Privileges command: GRANT SELECT, INSERT, UPDATE, DELETE ON Result TO 'result-clerk'@'%'

View Creation

The views that I decided to implement all span across multiple tables pulling the referenced data for each foreign key within a table. They are as follows:

- 1. Managers overview: Overview of the premier-league managers.
- 2. *Players overview*: Overview of the premier-league players.
- 3. Teams overview: Overview of the premier-league teams.

Examples of the above views were created are detailed below:

Managers overview

```
CREATE VIEW managers_overview AS
SELECT m.manager_name, m.country, t.team_name
FROM Team t, Manager m
WHERE t.team_id = m.team_id
```

Players overview

CREATE VIEW players overview AS

```
SELECT concat(p.first_name, ' ', p.second_name) as player_name,
t.team name, p.position, p.country, p.number
FROM Team t, Player p
WHERE t.team id = p.team id
Teams overview
CREATE VIEW teams_overview AS
SELECT t.team name, m.manager name, s.stadium name, t.position,
t.points
FROM Team t, Manager m, Stadium s
WHERE t.team id = m.team id
AND t.team id = s.team id
Relational Selects
Select all players from England
SELECT * FROM Player WHERE country='England';
Select all fixtures in Old Trafford
SELECT * FROM Fixture WHERE stadium id=( SELECT stadium id
FROM Stadium WHERE stadium name = 'Old Trafford');
Select all stadiums with a capacity of more than 50,000 people
SELECT * FROM Stadium WHERE capacity>50000;
Table Joins
Team name and manager using join
SELECT Team.team name, Manager.manager name
FROM Team
INNER JOIN Manager ON Team.team id = Manager.team id
All fixture id's of a teams home games
SELECT Team.team name, Fixture.fixture id
FROM Team
LEFT JOIN Fixture ON Team.team id = Fixture.home team id
```

Update Operations

Update time and date of a fixture

```
Update Fixture
SET Time = x, Date = y
WHERE fixture id = z;
Update a player's salary
Update Player
SET Salary = x
WHERE player id = y;
Triggers
Trigger to process a players transfer
DELIMITER $$
CREATE TRIGGER process_player_transfer AFTER INSERT ON Transfer
  FOR EACH ROW
BEGIN
  UPDATE Player
  SET team_id = NEW.new_team_id
  WHERE player id = NEW.player id;
END$$
DELIMITER;
Trigger to process a fixture win
DELIMITER $$
CREATE TRIGGER process fixture win AFTER INSERT ON Result
  FOR EACH ROW
BEGIN
  IF NEW.result = 'win' THEN
    UPDATE Team
    SET points = points+3
    WHERE team id = NEW.winner id;
END$$
DELIMITER;
```

Trigger to process a new manager

```
DELIMITER $$

CREATE TRIGGER process_new_manager AFTER INSERT ON Manager
  FOR EACH ROW

BEGIN
          UPDATE Team
        SET manager_id = NEW.manager_id
          WHERE team_id = NEW.team_id;

END$$

DELIMITER;
```

Additional Features

Trigger to handle goal difference calculation (uses variables)

```
DELIMITER $$
```

```
CREATE TRIGGER process_fixture_goal_difference AFTER INSERT ON Result
  FOR EACH ROW
BEGIN
  IF NEW.result = 'win' THEN
    SET @home_team_for_fixture := (SELECT home_team_id FROM Fixture WHERE
fixture id = NEW.fixture id);
    SET @away team for fixture := (SELECT away team id FROM Fixture WHERE
fixture_id = NEW.fixture_id);
    IF NEW.winner_id = @home_team_for_fixture THEN
      UPDATE Team SET goal_difference = goal_difference + (NEW.home_goals
- NEW.away goals) WHERE team id = @home team for fixture;
       UPDATE Team SET goal difference = goal difference - (NEW.home goals
- NEW.away goals) WHERE team id = @awaye team for fixture;
    ELSEIF NEW.winner_id = @away_team_for_fixture THEN
      UPDATE Team SET goal_difference = goal_difference -(NEW.away_goals -
NEW.home_goals) WHERE team_id = @home_team_for_fixture;
       UPDATE Team SET goal difference = goal difference + (NEW.away goals
- NEW.home goals) WHERE team_id = @awaye_team_for_fixture;
    END IF;
  END IF;
END$$
```

DELIMITER;

Appendix

```
Data Definition Commands (Tables)
```

```
DROP TABLE IF EXISTS 'Fixture';
/*!40101 SET @saved cs client = @.@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Fixture' (
 'fixture id' int(11) NOT NULL AUTO INCREMENT,
 'home team id' smallint(6) NOT NULL,
 'away team id' smallint(6) NOT NULL,
 'stadium id' smallint(6) NOT NULL,
 'date' date NOT NULL,
 'time' time NOT NULL,
 PRIMARY KEY ('fixture id'),
 UNIQUE KEY 'fixture id UNIQUE' ('fixture id'),
 CONSTRAINT 'FK Fixtures Away Team Id' FOREIGN KEY ('away team id')
REFERENCES 'team' ('team id'),
 CONSTRAINT 'FK Fixtures Home Team Id' FOREIGN KEY ('home team id')
REFERENCES 'team' ('team id'),
CONSTRAINT 'FK Fixtures Stadium Id' FOREIGN KEY ('stadium id') REFERENCES
'stadium' ('stadium id')
) ENGINE=InnoDB AUTO INCREMENT=21 DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
DROP TABLE IF EXISTS 'Manager';
/*!40101 SET @saved cs client = @.@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Manager' (
 'manager id' smallint(6) NOT NULL AUTO INCREMENT,
 'manager name' varchar(25) NOT NULL,
 'age' tinyint(4) NOT NULL,
 'salary' int(11) NOT NULL,
 'country' varchar(10) NOT NULL,
 'team id' smallint(6) NOT NULL,
 PRIMARY KEY ('manager id'),
 UNIQUE KEY 'manager id UNIQUE' ('manager id'),
 CONSTRAINT 'FK Managers Team Id' FOREIGN KEY ('team id') REFERENCES
'team' ('team id')
) ENGINE=InnoDB AUTO INCREMENT=13 DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
```

```
DROP TABLE IF EXISTS 'Player';
/*!40101 SET @saved_cs_client = @@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Player' (
 'player id' int(11) NOT NULL AUTO INCREMENT.
 'first name' varchar(15) NOT NULL,
 'second name' varchar(15) NOT NULL,
 'team id' smallint(6) NOT NULL,
 'position' varchar(10) NOT NULL,
 'country' varchar(25) NOT NULL,
 'number' varchar(3) NOT NULL,
 PRIMARY KEY ('player id'),
 UNIQUE KEY 'player id UNIQUE' ('player id'),
 CONSTRAINT 'FK Players Team Id' FOREIGN KEY ('team id') REFERENCES
'team' ('team id')
) ENGINE=InnoDB AUTO INCREMENT=51 DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
DROP TABLE IF EXISTS 'Result';
/*!40101 SET @saved cs client = @@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Result' (
 'result id' int(11) NOT NULL AUTO INCREMENT,
 'fixture id' int(11) NOT NULL,
 'home goals' tinyint(4) NOT NULL,
 'away goals' tinyint(4) NOT NULL,
 'result' varchar(4) NOT NULL,
 'winner id' smallint(6) DEFAULT NULL,
 PRIMARY KEY ('result id'),
 UNIQUE KEY 'id UNIQUE' ('result id'),
 CONSTRAINT 'FK Results Fixture Id' FOREIGN KEY ('fixture id') REFERENCES
'fixture' ('fixture id'),
 CONSTRAINT FK Results Winner Id FOREIGN KEY ('winner id') REFERENCES
'team' ('team id')
) ENGINE=InnoDB AUTO INCREMENT=12 DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
```

```
DROP TABLE IF EXISTS 'Stadium';
/*!40101 SET @saved cs client = @@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Stadium' (
 'stadium id' smallint(6) NOT NULL AUTO INCREMENT,
 'stadium name' varchar(25) NOT NULL,
 'city' varchar(25) DEFAULT NULL,
 'team id' smallint(6) DEFAULT NULL,
 'capacity' int(11) DEFAULT NULL,
 'opened' int(11) DEFAULT NULL,
 PRIMARY KEY ('stadium id'),
 UNIQUE KEY 'stadium id UNIQUE' ('stadium id'),
 CONSTRAINT 'FK Stadiums Team Id' FOREIGN KEY ('team id') REFERENCES
'team' ('team id')
) ENGINE=InnoDB AUTO INCREMENT=11 DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
DROP TABLE IF EXISTS 'Team';
/*!40101 SET @saved cs client = @@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Team' (
 'team id' smallint(6) NOT NULL AUTO INCREMENT,
 'team name' varchar(25) NOT NULL,
 'stadium id' smallint(6) DEFAULT NULL,
 'manager id' smallint(6) DEFAULT NULL,
 'city' varchar(25) NOT NULL,
 'position' tinyint(4) NOT NULL,
 'points' tinyint(4) NOT NULL,
 'goal difference' smallint(6) NOT NULL,
 PRIMARY KEY ('team id'),
 UNIQUE KEY 'team id UNIQUE' ('team id'),
 CONSTRAINT 'FK Teams Manager Id' FOREIGN KEY ('manager id') REFERENCES
'manager' ('manager id'),
 CONSTRAINT 'FK Teams Stadium Id' FOREIGN KEY ('stadium id') REFERENCES
'stadium' ('stadium id')
) ENGINE=InnoDB AUTO INCREMENT=11 DEFAULT CHARSET=utf8;
/*!40101 SET character set client = @saved cs client */;
```

```
DROP TABLE IF EXISTS 'Transfer';
/*!40101 SET @saved cs client = @@character set client */;
SET character set client = utf8mb4;
CREATE TABLE 'Transfer' (
 'transfer id' int(11) NOT NULL,
 'player id' int(11) DEFAULT NULL,
 'old team id' smallint(6) DEFAULT NULL,
 'new team id' smallint(6) DEFAULT NULL,
 'transfer fee' int(11) DEFAULT NULL,
 'date' date DEFAULT NULL,
 PRIMARY KEY ('transfer id'),
 KEY 'Transfers - Player Id idx' ('player id'),
 KEY 'Transfers - Old Team Id idx' ('old team id'),
 KEY 'Transfers - New Team Id idx' ('new team id'),
 CONSTRAINT 'FK Transfers New Team Id' FOREIGN KEY ('new team id')
REFERENCES 'team' ('team id'),
 CONSTRAINT 'FK Transfers Old Team Id' FOREIGN KEY ('old team id')
REFERENCES 'team' ('team id').
 CONSTRAINT 'FK Transfers Player Id' FOREIGN KEY ('player id') REFERENCES
'player' ('player id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8:
/*!40101 SET character set client = @saved cs client */;
Database Population Commands (Values)
LOCK TABLES 'Fixture' WRITE;
/*!40000 ALTER TABLE 'Fixture' DISABLE KEYS */;
INSERT INTO 'Fixture' VALUES (1,1,6,3,'2017-12-01','16:30:00'),(2,1,8,3,'2017-11-
11','16:30:00'),(3,1,10,3,'2017-11-24','16:30:00'),(4,2,10,2,'2017-11-
11','16:30:00'),(5,3,2,8,'2017-11-24','14:15:00'),(6,3,4,8,'2017-11-
11','14:15:00'),(7,3,5,8,'2017-12-08','16:30:00'),(8,3,6,8,'2017-12-
08','12:00:00'),(9,4,1,5,'2017-12-08','16:30:00'),(10,4,8,5,'2017-11-
24','16:30:00'),(11,5,9,1,'2017-11-11','12:00:00'),(12,6,5,4,'2017-11-
11','16:30:00'),(13,6,7,4,'2017-11-11','16:30:00'),(14,7,4,7,'2017-12-
01','12:00:00'),(15,7,9,7,'2017-11-24','12:00:00'),(16,8,2,10,'2017-12-
01','14:15:00'),(17,8,7,10,'2017-12-08','14:15:00'),(18,9,3,9,'2017-12-
01','16:30:00'),(19,9,10.9,'2017-12-08','16:30:00'),(20,10.5,6,'2017-12-01','16:30:00');
/*!40000 ALTER TABLE 'Fixture' ENABLE KEYS */;
```

UNLOCK	TABLES:
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LOCK TABLES 'Manager' WRITE;

/*!40000 ALTER TABLE 'Manager' DISABLE KEYS */;

INSERT INTO 'Manager' VALUES (1,'Eddie Howe',40,500000,'England',2),(2,'Javie Gracia',48,4000000,'Spain',9),(3,'José Mourinho',55,15000000,'Portugal',7),(4,'Josep Guardiola',47,15300000,'Spain',6),(5,'Jürgen Klopp',51,7000000,'Germany',5),(6,'Marco Silva',41,3000000,'Portugal',4),(7,'Mauricio Pochettino

',46,8500000,'Argentina',8),(8,'Maurizio Sarri',59,4500000,'Italy',3),(9,'Nuno Espírito Santo',44,3000000,'Portugal',10),(10,'Unai Emery',46,6000000,'Spain',1); /*!40000 ALTER TABLE `Manager` ENABLE KEYS */;

/*!40000 ALTER TABLE `Manager` ENABLE KEYS */
UNLOCK TABLES;

.....

LOCK TABLES 'Player' WRITE;

/*!40000 ALTER TABLE 'Player' DISABLE KEYS */;

INSERT INTO 'Player' VALUES

(1,'Aaron','Ramsey',1,'Midfielder','Wales','8'),(2,'Alexandre','Lacazette',1,'Forward','France','9'),(3,'Alexis','Sanchez',7,'Forward','Chile','7'),(4,'Álvaro','Morata',10,'Forward','Spain','29'),(5,'Artur','Boruc',2,'Goalkeeper','Poland','1'),(6,'Ben','Ashley-

Seal',3,'Forward','England','24'),(7,'Cenk','Tosun',4,'Forward','Turkey','14'),(8,'Claudio','Bravo',6,'Goalkeeper','Chile','1'),(9,'Daniel','Drinkwater',3,'Midfielder','England','6'),(10,'Danny','We lbeck',7,'Forward','England','23'),(11,'David','de

Gea',7,'Goalkeeper','Spain','1'),(12,'Dejan','Lovren',8,'Defender','Croatia','6'),(13,'Diogo','Jota', 10,'Midfielder','Portugal','18'),(14,'Eden','Hazard',3,'Forward','Belgium','10'),(15,'Fabian','Del ph',6,'Midfielder','England','18'),(16,'Fernando','Llorente',8,'Forward','Spain','18'),(17,'Gabriel','Jesus',6,'Forward','Brazil','33'),(18,'Harry','Kane',8,'Forward','England','10'),(19,'Heurelho','Gomes',9,'Goalkeeper','Brazil','1'),(20,'Hugo','Lloris',8,'Goalkeeper','France','1'),(21,'James','Milner',6,'Midfielder','England','7'),(22,'Jermain','Defoe',2,'Forward','England','18'),(23,'John','Ruddy',10,'Goalkeeper','England','21'),(24,'Jordan','Pickford',4,'Goalkeeper','England','1'),(25,'Joshua','King',2,'Forward','Norway','17'),(26,'Kieran','Trippier',8,'Defender','England','2'),(27,'Léo','Bonatini',10,'Forward','Brazil','33'),(28,'Marcus','Rashford',7,'Forward','England','10'),(29,'Marcus','Rojo',7,'Defender','Argentina','16'),(30,'Marouane','Fellaini',1,'Midfielder','Belgium','27'),(31,'Matt','Doherty',10,'Defender','Ireland','2'),(32,'Miguel','Britos',9,'Defender','Uruguay','3'),(33,'Mohamed','Salah',5,'Forward','Egypt','11'),(34,'Morgan','Schneiderlin',4,'Midfielder','France','18'),(35,'Moussa','Sissoko',0,'Midfielder','France','17'),(36,'Nathan','Aké',2,'Defender','Netherlands','5'),(37,'Oumar','Niasse',4,'Forward','Senegal','34'),(38,'Petr','Cech',1,'Goalkeeper','Czech

Republic','1'),(39,'Raheem','Sterling',6,'Forward','England','7'),(40,'Rob','Holding',1,'Defender','England','16'),(41,'Roberto','Firmino',5,'Forward','Brazil','9'),(42,'Ryan','Fraser',5,'Midfielder','Scotland','24'),(43,'Seamus','Coleman',4,'Defender','Ireland','23'),(44,'Simon','Mignolet',5,'Go alkeeper','Belgium','22'),(45,'Stefano','Okaka',9,'Forward','Italy','33'),(46,'Tom','Cleverly',9,'M idfielder','England','8'),(47,'Troy','Deeney',9,'Forward','England','9'),(48,'Victor','Moses',3,'Defender','Nigeria','15'),(49,'Vincent','Kompany',6,'Defender','Belgium','4'),(50,'Willy','Caballero',3,'Goalkeeper','Argentina','13');

/*!40000 ALTER TABLE 'Player' ENABLE KEYS */; UNLOCK TABLES; LOCK TABLES 'Result' WRITE; /*!40000 ALTER TABLE 'Result' DISABLE KEYS */; INSERT INTO 'Result' VALUES (1,1,3,1,'win',1),(2,2,1,4,'win',8),(3,4,1,4,'win',10),(4,6,0,0,'draw',NULL),(5,11,1,0,'win',5),(6, 12,2,1,'win',6),(7,13,0,3,'win',7),(8,3,2,2,'draw',NULL),(9,5,4,3,'win',3),(10,10,1,1,'draw',NU LL),(11,15,1,0,'win',7); /*!40000 ALTER TABLE 'Result' ENABLE KEYS */; UNLOCK TABLES; LOCK TABLES 'Stadium' WRITE; /*!40000 ALTER TABLE 'Stadium' DISABLE KEYS */; INSERT INTO 'Stadium' VALUES (1,'Anfield','Liverpool',5,54074,1884),(2,'Dean Court', 'Bournemouth', 2,11360,1910), (3, 'Emirates Stadium', 'London', 1,59867,2006), (4, 'Etihad Stadium', 'Manchester', 6,55097,2003), (5, 'Goodison Park', 'Liverpool', 4,39571,1892), (6, 'Molineux Stadium', 'Wolverhampton', 10,31700,1889), (7,'Old Trafford', 'Manchester', 7,75643,1910), (8,'Stamford Bridge', 'London', 3,41631,1877), (9, 'Vicarage Road', 'Watford', 9,21977,1922), (10, 'Wembley Stadium', 'London', 8,90000,2007); /*!40000 ALTER TABLE 'Stadium' ENABLE KEYS */; UNLOCK TABLES; LOCK TABLES 'Team' WRITE; /*!40000 ALTER TABLE 'Team' DISABLE KEYS */; INSERT INTO 'Team' VALUES (1,'Arsenal',3,10,'London',3,28,12),(2,'Bournemouth',2,1,'Bournemouth',8,20,3),(3,'Chelsea',8 ,8,'London',4,27,18),(4,'Everton',5,6,'Liverpool',9,15,2),(5,'Liverpool',1,5,'Liverpool',2,29,16), (6, 'Manchester City', 4,3, 'Manchester', 1,29,18), (7, 'Manchester United', 7,4, 'Manchester', 6,23,4), (8, 'Tottenham Hotspur', 10,7, 'London', 5,27,11), (9, 'Watford', 9,2, 'Watford', 9,19,2), (10, 'Wolverhampton') Wanderers', 6,9, 'Wolverhampton', 7,21,3); /*!40000 ALTER TABLE 'Team' ENABLE KEYS */; UNLOCK TABLES;

LOCK TABLES 'Transfer' WRITE;

/*!40000 ALTER TABLE 'Transfer' DISABLE KEYS */;

INSERT INTO `Transfer` VALUES (1,1,1,2,5000000,'2018-11-06'),(2,1,2,1,5000000,'2018-11-06'),(3,10,1,7,110000000,'2018-11-20'),(4,30,7,1,85000000,'2018-11-

CS3041 – INFORMATION MANAGEMENT

20'),(5,12,5,8,19000000,'2018-11-21'),(6,4,3,10,76000000,'2018-11-21'),(7,21,5,6,125000000,'2018-11-21'),(8,6,10,3,83000000,'2018-11-21'),(9,42,2,5,23000000,NULL); /*!40000 ALTER TABLE `Transfer` ENABLE KEYS */; UNLOCK TABLES;