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# Part A – Project Planning

In this part, you are required to formulate the plan for the chosen scenario of your

Project:

Business Overview –

The football club has players and employees. They wants to save data for players , employees and physio and employees.

Business requirements –

Players are identified by Player ID. Their names, addresses, phone numbers must be recorded. Physios are identified by Physio ID. Their Names, Specialization (Orthopedic, Chiropractic, and Acupuncture) and Office locations and phone numbers are recorded. The club has various employees identified by an employee ID, an employee type (Manager, Receptionist, Coach, and IT Admin). Their names, email addresses, phone number and office locations are stored. A Player is assessed by many Physios appointed to them by their coach. Employees can be assigned to one physio.

Expected Project Outcomes –

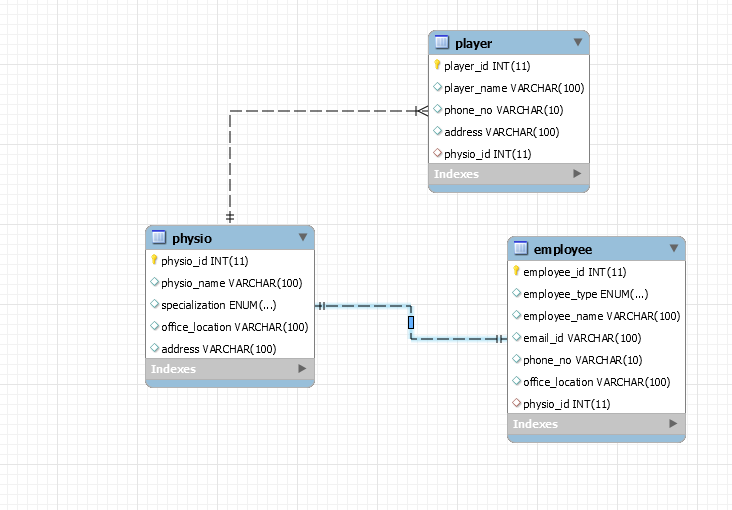
* 1. Export Files , ER diagram

Technical and administrative details –

* 1. *DBMS software used : Mysql Workbench,*
  2. *Storage : MySQL Database,*
  3. *Backup : Mysql Dumps*
  4. *Recovery plans :*

# Part B – Database Design

ER Diagram –



Relational schemas –

* 1. Player
  2. Physio
  3. Employee

Normal Forms : Applied 1st NF , 2nd NF and 3rd NF

# Part C – Database Implementation and Testing

**Database Implementation** –

Create database test

**The tables and their relationships**

create table Player(

  player\_id int primary key,

  player\_name varchar(100),

  phone\_no varchar(10),

  address varchar(100),

  physio\_id int REFERENCES physio(physio\_id)

  );

 create table physio(

                physio\_id int primary key,

                physio\_name varchar(100),

                specialization ENUM ('Orthopedic','Chiropractic','Acupuncture'),

                office\_location varchar(100),

                address varchar(100)

);

 create table employee(

                employee\_id int primary key,

                employee\_type ENUM ('Manager', 'Receptionist', 'Coach', 'IT' ,'Admin'),

                employee\_name varchar(100),

                email\_id varchar(100),

                phone\_no varchar(10),

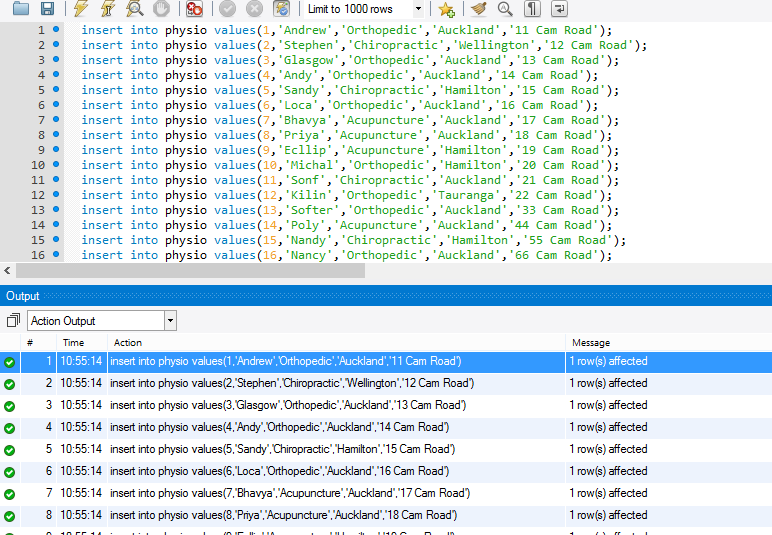
                office\_location varchar(100),

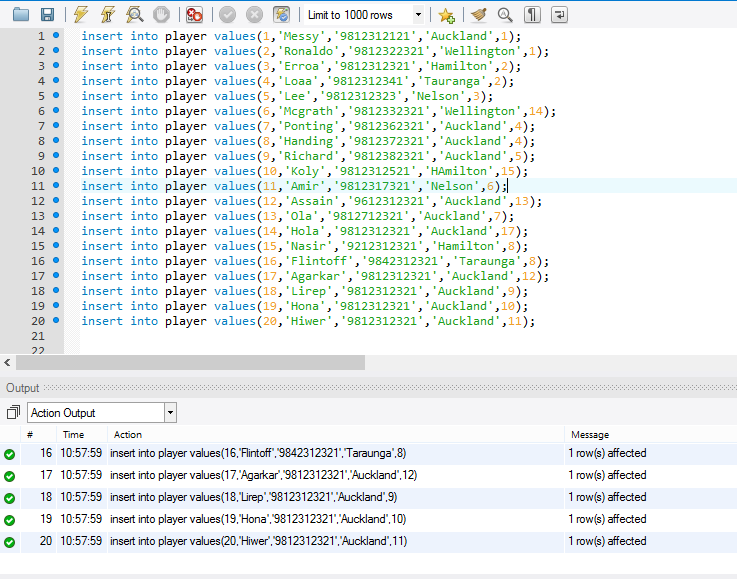
                physio\_id int unique,

    FOREIGN KEY(physio\_id) REFERENCES physio(physio\_id)

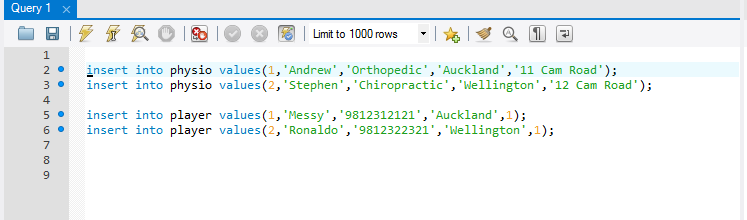
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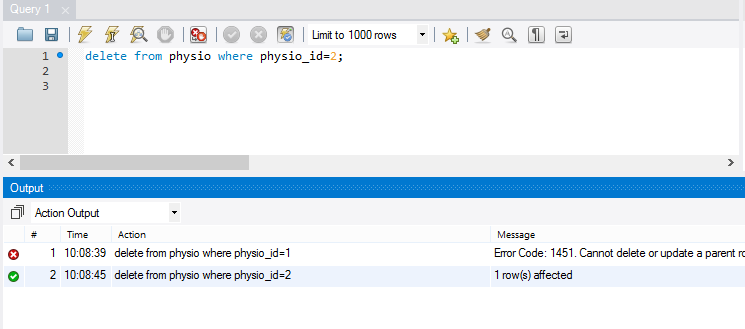
2. Database Testing

1. *Populate your database with at least 20 test records*



1. *Test insertion and deletion of records*





1. *Test relationship between the tables*
   * Testing Relationship one to one between Employee and Physio

select \* from employee where physio\_id=1;



* + Testing Relationship one to many between Player and Physio

select \* from player where physio\_id=1;