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# Part A – Project Planning

Overview –

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

The club wants to maintain data so as to find the number of player who have opted for multiple physio , which all physios are involved with which all players. Players which are associated with which location.

Requirements –

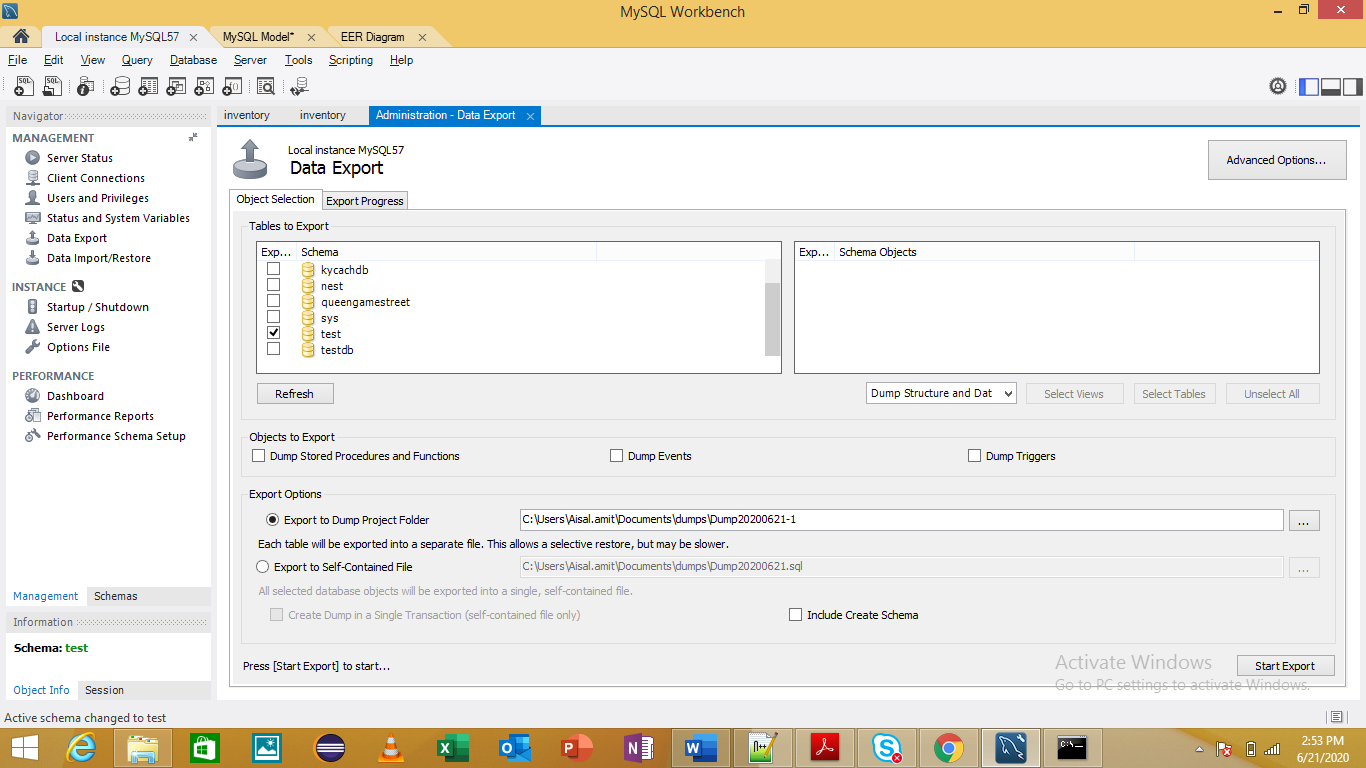
Players data should contain names, addresses, phone numbers. Physio ID is the identifier of Physio along with their specialization (orthopedic, chiropractic, and acupuncture) , name and office addresses and phone numbers should be saved. The club employees data like employee ID, an employee type (Manager, and IT Admin) and employee id as an identifier along with their names, email addresses, phone number and office addresses needs to be stored. A Player can be linked with many physios . Employees can be linked to one physio.

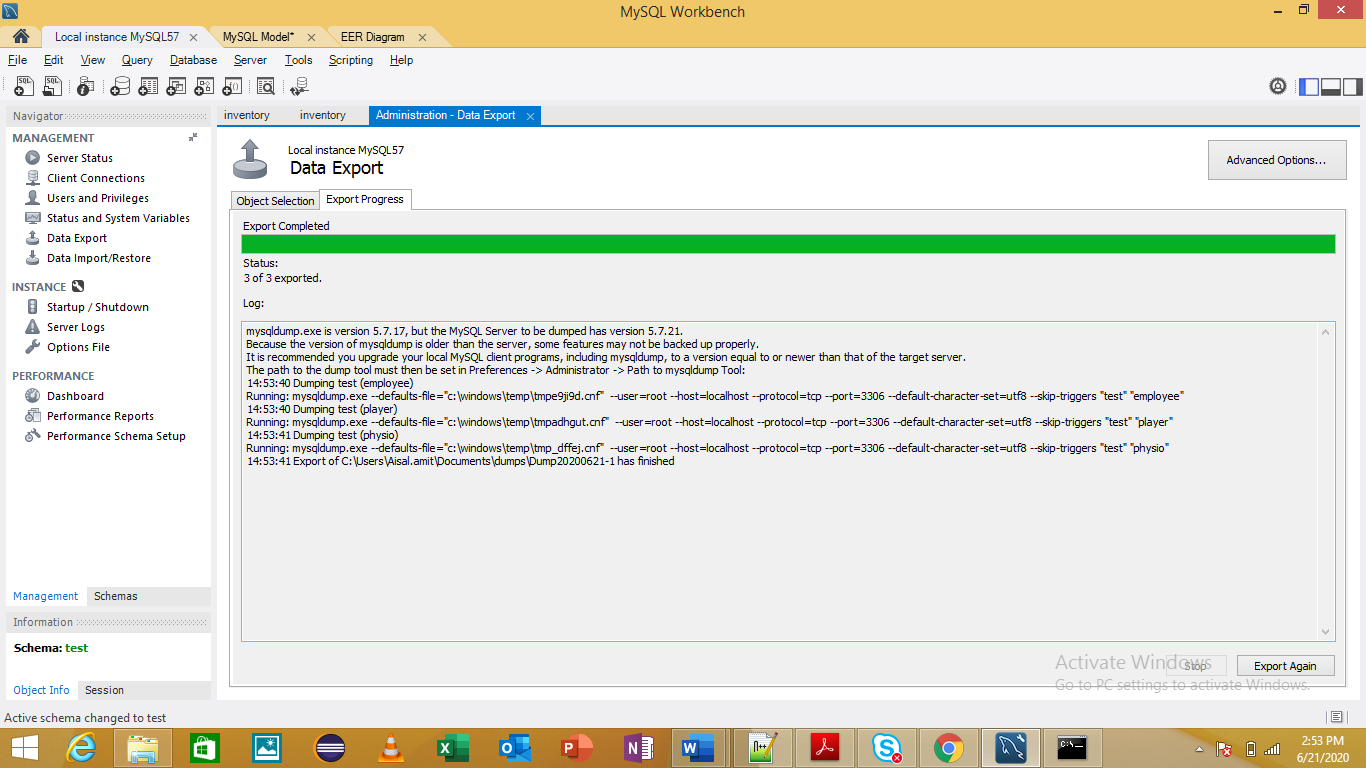
Expected Outcomes –

* 1. ER diagram , Export Files

Technical details –

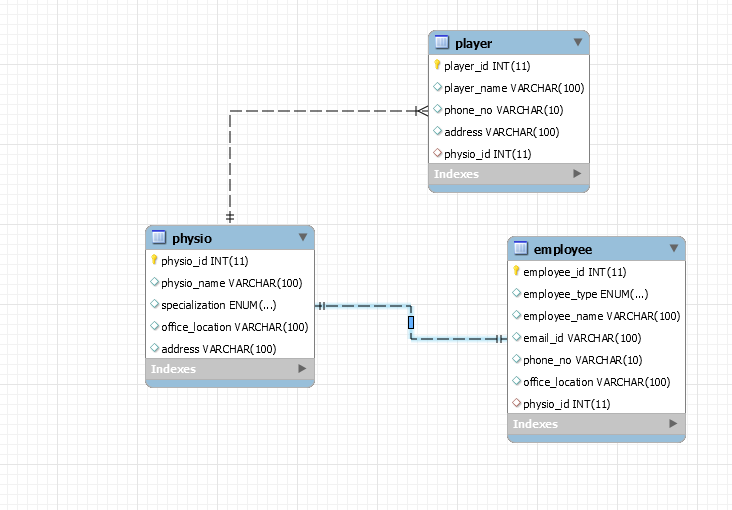
* 1. *DBMS software used : MySQL Workbench 5.0.7,*
  2. *Storage : MySQL Server Database*
  3. *Backup : MySQL Export Dumps*





# Part B – Database Design

ER Diagram –



Schemas –

* 1. Player
  2. Physio
  3. Employee

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

# Part C – Implementation and Testing

**Implementation** –

Create database test

**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),

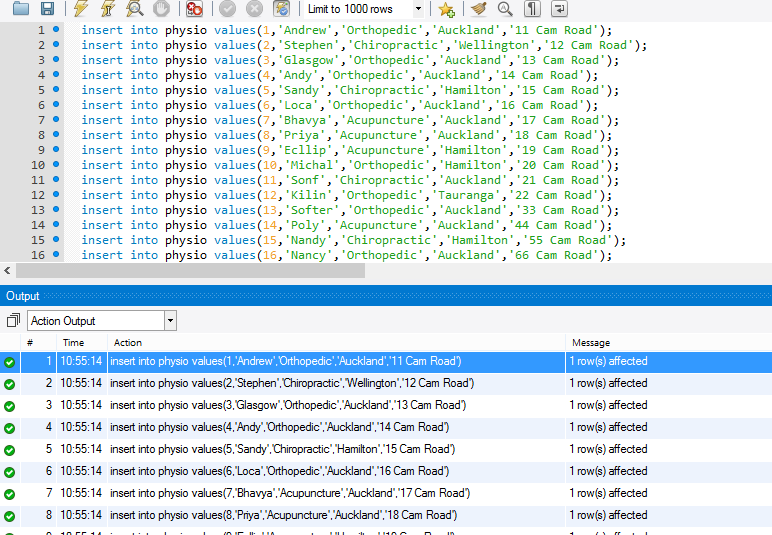
                office\_location varchar(100),

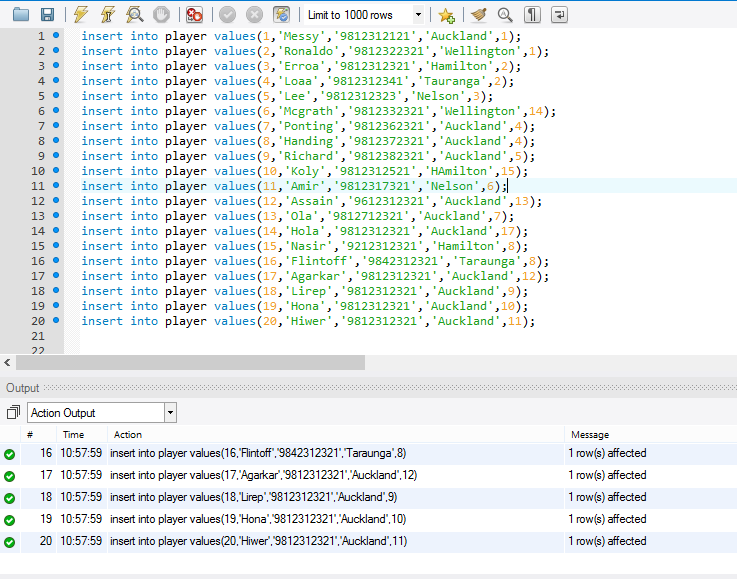
                physio\_id int unique,

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

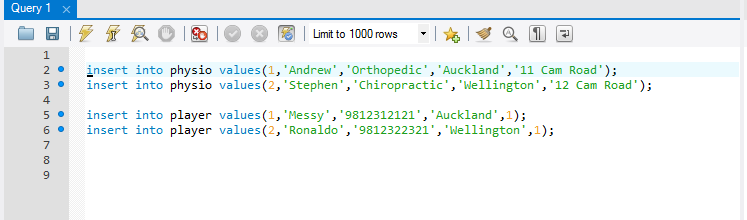
);

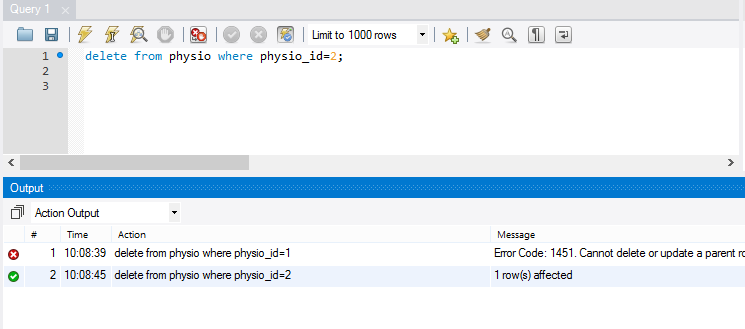
2. Database Testing

1. *Populating the database*



1. *Testing insertion , deletion*





1. *Testing 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;

# References

* [www.w3schools.com](http://www.w3schools.com)
* [www.dev.mysql.com](http://www.dev.mysql.com)
* [www.tutorialpoint.com](http://www.tutorialpoint.com)