

Assignment

by Damian Meewis

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Introduction

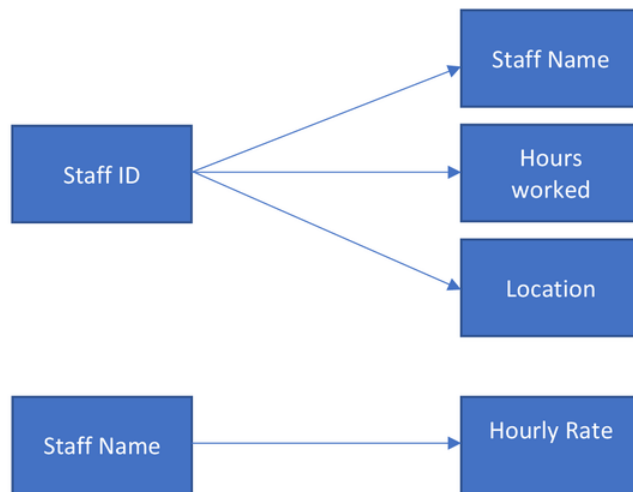
Shark attack' swimming club is a successful business located in central Swansea offering swimming lessons and training to local children and young adults. Due to their good reputation and recent accolades in local and national tournaments they are becoming a popular choice with those wanting to learn to swim and indeed compete. In order to continue to build upon their good reputation they wish to upgrade their entire data processing provision and they believe it could help them with the running of their services and finances.

They would like to use a system that would allow them to record student/swimmer details, along with parent details for those under 18 years of age. They have a large database of swimming coaches available that they match with appropriate level classes. They use several pools for teaching and training located in and around the Swansea area which have to be booked in advance. As they now take members to swimming tournaments, they would like to record who will be competing and in what category.

Finally they would like the system to help with the financial requirements of running the club. They need to invoice the students/swimmers every term. They need to record when swimming coaches are working and pay them accordingly. There is also a small fee for competitors entering any tournament therefore this will need to be calculated and recorded and appropriate invoices sent out to the swimmers who wish to compete.

A Main Determinacy Diagram

Staff Wages



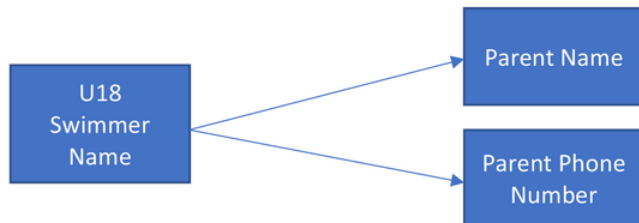
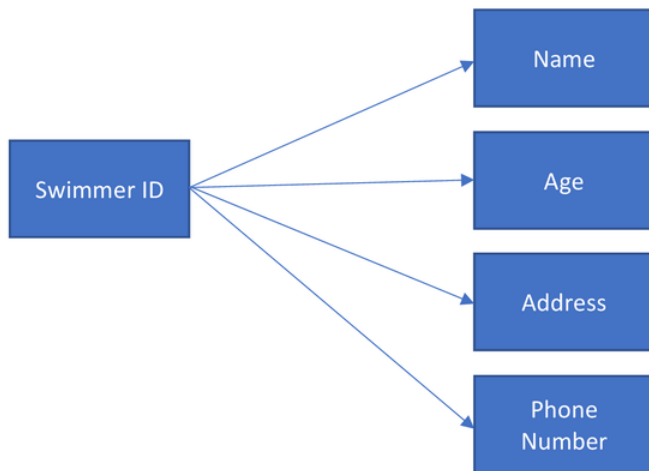
Relation in the third form: Staff Details

Staff ID	Staff Name	Hours Worked	Location

Relation in the third form: Staff Wages

Staff Name	Hourly

Swimmers Details



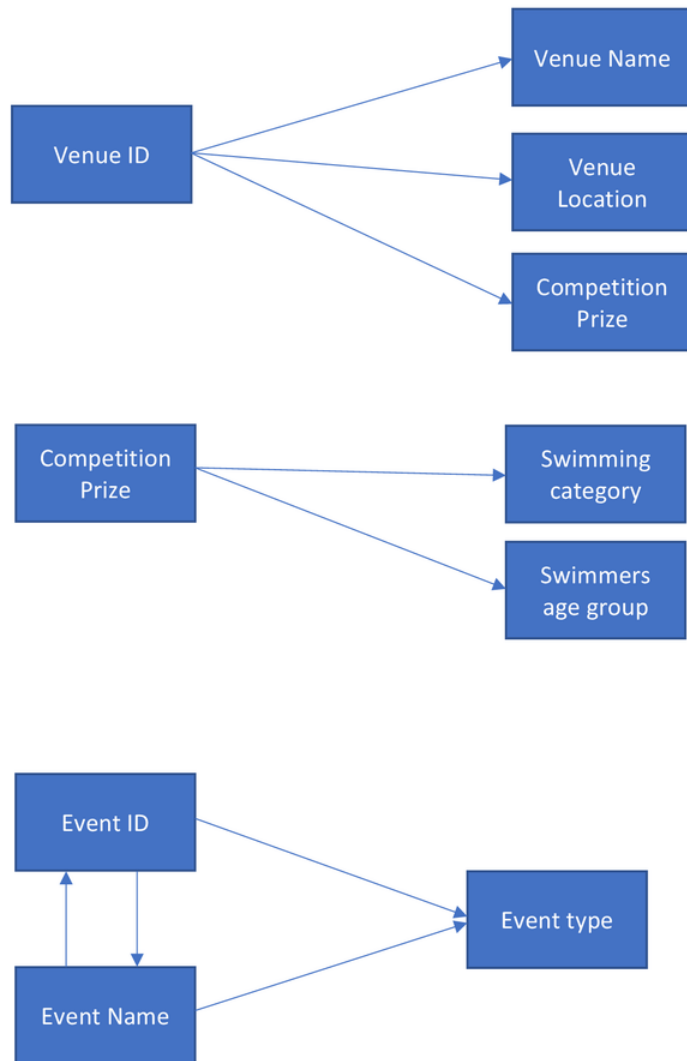
Relation in the third form: Swimmer Details

Swimmer ID	Name	Age	Address	Phone Number

Relation in the third form: U18 Parent Details

U18 Swimmer Name	Parent Name	Parent phone number

Competition details



Relation in the third form: Venues

Venue ID	Venue Name	Venue Location	Competition Prize

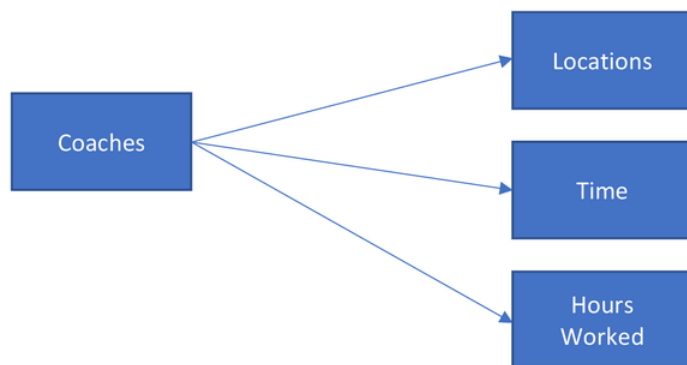
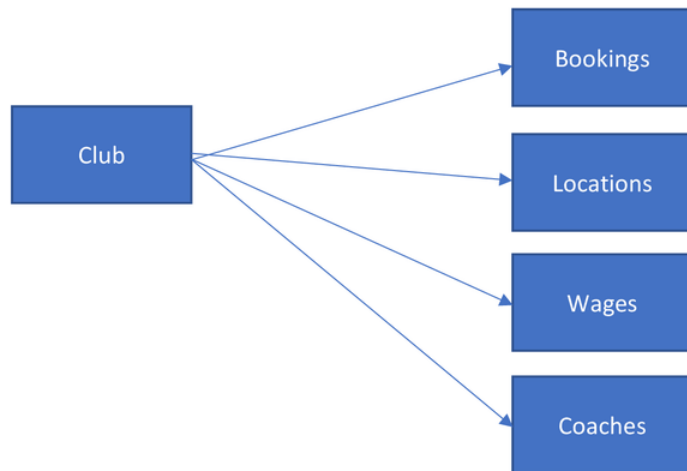
Relation in the third form: Swimming details

Competition Prize	Swimming Category	Swimmers age group

Relation in the third form: Event details

Event ID	Event Name	Event Category

Financials



Relation in the third form: Club Financials

Club	Bookings	Locations	Coaches	Wages

Relation in the third form: Coach recordings

Coaches	Locations	Time	Hours worked

An Entity Relationship Diagram

Relationships Connections

Shark Club>>Coaches

The way these connect is the swim club send bookings made by swimmers who then send locations for the coaches to go to, the coaches then go to the locations and meet up with the client.

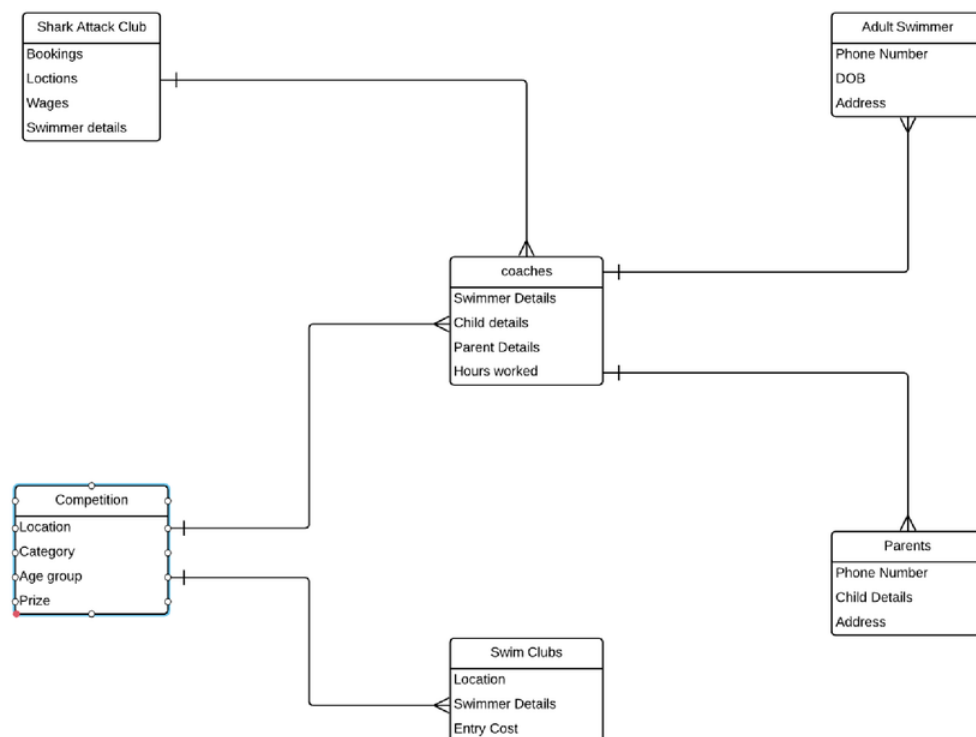
Coaches>> Adult Swimmer Coaches>>Parents

Coaches then gather the details of the swimmer and the hours worked to bring back to the club to receive the wages, coaches go straight to the parents for the details rather than the child as they need the paper work and consent of the parents, Especially when contacted by competition holders

Competition>> Coaches Competitions>>Swim Clubs

The competition holders will send the coaches locations, categories and age groups so they can then gather swimmers for the categories and give prize details to the swimming club so they can then give them out to the swimmers or keep them in the club whether the swimmers are doing it for the club rather than themselves.

Diagram



User Requirements

The swimming company have asked for a system that allows them to record the swimmer details along with the parent details and can send out coaches that can deal with the level of the swimmer, in the diagrams I have suggested that the club receive bookings only and send coaches who talk and train with the swimmers or U18 swimmers parents and collect details that way which get sent back to the club. As they got many locations it is easier this way as the club needs the swimmers to have booked in advance to sort out the location and the coaches. As they are also starting to compete the competitions will contact coaches and clubs to gather people for the competition which the coaches will gather the competitors and the club will sort out the prizes as the swimmers may be doing it for the club rather than individual. Finally since the club also want to control the finances the club will directly be paid by the swimmers or the parents when they take bookings and the coaches will collect the hours they have earned and the club will then send out the wages to the coaches that they assigned.

Assignment

GRADEMARK REPORT

FINAL GRADE

50/100

GENERAL COMMENTS

Instructor

A suitable layout your report with some good introductory text. Good use of determinants he diagrams to analyse data to 3NF.

Identified appropriate entities using the determinants he diagram method to analyse your data. Would have liked to have seen some test data to prove that you are 3NF worked.

A good ERD but did you use visio? Your diagramming tool has not identified any PK/FK – therefore it is a bit too simplistic. Make sure you think about the direction of your relationships as this could make the dataset change. Some appropriate work however you need to use visio identify primary and secondary keys to improve the design.

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