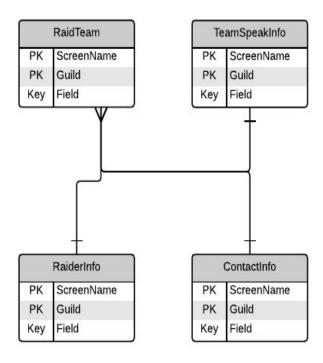The Lizards of Ysera
Database Management
4 April, 2016
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Table of Contents

Entity Relation Diagram

RaidTeam	
PK	ScreenName
PK	Guild
Key	Field

TeamSpeakInfo	
PK	ScreenName
PK	Guild
Key	Field

RaiderInfo	
PK	ScreenName
PK	Guild
Key	Field

ContactInfo	
PK	ScreenName
PK	Guild
Key	Field

Executive Summary

Overview:

In many MMO(Massive Multiplayer Online) at the end of the game there is content that is designed to make players work together in order to receive loot such as gear, titles, mounts and other things of that nature.

However, when it comes to managing a group of players for end game content "raid teams," it is hard to keep track of all the players. Teams can be anywhere from 10 to 40 people. Having a way to manage all that information about 10 to 40 individuals can be hard. Especially since no two people are the same.

Objective:

The purpose of these documents is to outline a database that would allow a "Raid Leader" to quickly look up a raider's information and see how they have been progressing in the raids, seeing what server/guild they belong to, and seeing how best to contact them, along with how long they have been with the team.

Tables

RaidTeam

Purpose:

This table is used to show the raid team as a whole. This table shows everything

you need to know about the team in order to interact with the other tables, such as

RealName, Guild, etc.

Create Statement

Create Table RaidTeam(

ScreenName varchar (12) NOT NULL,

RealName varchar(200) NOT NULL,

Server varchar (200) NOT NULL,

Guild varchar (30) NOT NULL,

Rank varchar (20) Not Null,

Primary Key (ScreenName,Guild));

Function Dependencies

ScreenName |-> RealName, Server, Guild,Rank

Sample Data

	screenname character varying(12)	realname character varying(200)	server character varying(200)	guild character varying(30)	rank character varying(20)
1	Xethrion	Josh	Ysera	The Lizards	Raider
2	Potvin	Sam	Ysera	The Lizards	Raider
3	HammerWraith	Greg	Ysera	The Lizards	Admin
4	Mcloven	Kory	Ysera	The Lizards	Raider
5	Kaysham	Sebastian	Ysera	The Lizards	Raider
6	Redrodis	Will	Ysera	The Lziards	Raider
7	Noranai	Alex	Ysera	The Lizards	SubAdmin
8	Jofts	Tristan	Ysera	The Lizards	SubAdmin
9	Jaroq	Jar	Ysera	The Breach Of Faith	Guest
10	Geriaticc	Ticc	Ysera	The Royal Red Devils	Guest
11	Cyclonic	Lyndon	WhisperWind	Reckless Aband	Guest
12	Xayu	Carl	WhisperWind	Reckless Aband	Guest
13	Quillnsofa	Matt	Arthor	Friendship is Magic	Guest
14	Vlyniswub	Matt	Arthor	Friendship is Magic	Guest
15	Geofrey	Chris	Arthor	Friendship is Magic	Guest
16	WytMagic	Wyt	Ysera	True Lies	Guest
17	Darkmek	Kevin	Durotan	The Lizards	SubAdmin

RaiderInfo

Purpose:

This table goes into more detail about each raider or team member; it tells you the

class and spec along with the ilvl(Item Level) so you can use that as a judge as to

what sort of damage or healing that player should be able to do.

Create Statement

Create Table RaiderInfo(

ScreenName varchar (12) Not Null,

Server varchar (200) Not Null,

Guild varchar (30) Not Null,

Class varchar (30) Not Null,

Spec varchar (30) Not Null,

ILvl int,

Primary Key (ScreenName,Guild)

);

Functional Dependencies

ScreenName,Guild |-> Sever,Class,Spec,ILvl

Sample Data

	screenname character varying(12)	server character varying(200)	guild character varying(30)	class character varying(30)	spec character varying(30)	ilvl integer
1	Xethrion	Ysera	The Lizards	Warlock	Destro	720
2	Potvin	Ysera	The Lizards	Mage	Arcane	720
3	HammerWraith	Ysera	The Lizards	Palidan	Holy	720
4	Mcloven	Ysera	The Lizards	Mage	Frost	720
5	Kaysham	Ysera	The Lizards	Shaman	Resto	720
6	Redrodis	Ysera	The Lziards	DeathKnight	Frost	720
7	Noranai	Ysera	The Lizards	Palidan	Ret	720
8	Jofts	Ysera	The Lizards	Priest	Holy	720
9	Jaroq	Ysera	The Breach Of Faith	Warrior	Fury	720
10	Geriaticc	Ysera	The Royal Red Devils	Warrior	Fury	720
11	Cyclonic	WhisperWind	Reckless Aband	Shaman	Enhancement	720
12	Xayu	WhisperWind	Reckless Aband	Monk	BrewMaster	720
13	Quillnsofa	Arthor	Friendship is Magic	Mage	Arcane	720
14	Vlyniswub	Arthor	Friendship is Magic	Druid	Resto	720
15	Geofrey	Arthor	Friendship is Magic	Hunter	MarksMan	720
16	WytMagic	Ysera	True Lies	Druid	Resto	720
17	Darkmek	Durotan	The Lizards	DeathKnight	Blood	720

ContactInfo

Purpose:

This table is designed to allow anyone with access to this database to find the email of a raider.

Create Statement

Create Table ContactInfo(

ScreenName varchar (12) NOT NULL,

RealName varchar (200) NOT NULL,

Server varchar (200) NOT NULL,

Guild varchar (30) NOT NULL,

Class varchar (30) NOT NULL,

Email varchar (40) NOT NULL,

Primary Key(ScreenName,Guild)

);

Functional Dependencies

ScreenName, Guild |-> RealName, Sever, Class,Email

Sample Data

(Rotation paper)

	screenname character varying(12)	realname character varying(200)	server character varying(200)	guild character varying(30)	class character varying(30)	email character varying(40)
1	Xethrion	Josh	Ysera	The Lizards	Warlock	JOSHUA.FEIN741@LIVE.COM
2	Potvin	Sam	Ysera	The Lizards	Mage	nerboyiv@gmail.com
3	HammerWraith	Greg	Ysera	The Lizards	Palidan	Commander0423@gmail.com
4	Mcloven	Kory	Ysera	The Lizards	Mage	16.kory.clark@westg.org
5	Kaysham	Sebastian	Ysera	The Lizards	Shaman	vitalidaparkour@gmail.com
6	Redrodis	Will	Ysera	The Lziards	DeathKnight	laxgombos@gmail.com
7	Noranai	Alex	Ysera	The Lizards	Palidan	awn3415@g.rit.edu
8	Jofts	Tristan	Ysera	The Lizards	Priest	tristanjesby@gmail.com
9	Jaroq	Jar	Ysera	The Breach Of Faith	Warrior	quitter@gmail.com
10	Geriaticc	Ticc	Ysera	The Royal Red Devils	Warrior	who.care@gmail.com
11	Cyclonic	Lyndon	WhisperWind	Reckless Aband	Shaman	l.purnell@westnet.com.au
12	Xayu	Carl	WhisperWind	Reckless Aband	Monk	xayuthepanda@gmail.com
13	Quillnsofa	Matt	Arthor	Friendship is Magic	Mage	omegagryphon@gmail.com
14	Vlyniswub	Matt	Arthor	Friendship is Magic	Druid	lenkagamine40@gmail.com
15	Geofrey	Chris	Arthor	Friendship is Magic	Hunter	cplus902@gmail.com
16	WytMagic	Wyt	Ysera	True Lies	Druid	wheredidshego@gmail.com
17	Darkmek	Kevin	Durotan	The Lizards	Deathknight	k.decarlo131@gmail.com

TeamSpeakInfo

Purpose:

This table is designed to allow the user to quickly look through and find the

TeamSpeak (TS) username for each raider and to see what permissions that

individual has.

Create Statement

Create table TeamSpeakInfo(

ScreenName varchar (12) Not Null,

Guild varchar (200) Not null,

Rank varchar (20) Not null,

Permissions varchar (200)Not Null,

Primary Key (ScreenName,Guild));

Functional Dependencies

ScreenName,Guild |-> Rank Permissions

Sample Data

	screenname character varying(12)	guild character varying(200)	rank character varying(20)	permissions character varying(200)
1	Xethrion	The Lizards	Raider	AllUnlockedChannels&RaidGroup
2	Potvin	The Lizards	Raider	AllUnlockedChannels&RaidGroup
3	HammerWraith	The Lizards	Admin	AllChannels
4	Mcloven	The Lizards	Raider	AllUnlockedChannels&RaidGroup
5	Kaysham	The Lizards	Raider	AllUnlockedChannels&RaidGroup
6	Redrodis	The Lziards	Raider	AllUnlockedChannels&RaidGroup
7	Noranai	The Lizards	SubAdmin	AllChannels
8	Jofts	The Lizards	SubAdmin	AllChannels
9	Jaroq	The Breach Of Faith	Guest	AllUnlockedChannels
10	Geriaticc	The Royal Red Devils	Guest	AllUnlockedChannels
11	Cyclonic	Reckless Aband	Guest	AllUnlockedChannels
12	Xayu	Reckless Aband	Guest	AllUnlockedChannels
13	Quillnsofa	Friendship is Magic	Guest	AllUnlockedChannels
14	Vlyniswub	Friendship is Magic	Guest	AllUnlockedChannels
15	Geofrey	Friendship is Magic	Guest	AllUnlockedChannels
16	WytMagic	True Lies	Guest	AllUnlockedChannels&RaidGroup
17	Darkmek	The Lizards	SubAdmin	AllChannels

Views

TheLizards

Purpose

This view is one of three that is designed to divide up the overall table that is the

RaidTeam into small tables, two of which are split up by guild and one of the

tables being Pugs.

Create Statement

Create View TheLizards As (

Select ScreenName,Server,Rank,Guild

From RaidTeam

where Guild = 'The Lizards'

);

Sample Data

	screenname character varying(12)	server character varying(200)	rank character varying(20)	guild character varying(30)
1	Xethrion	Ysera	Raider	The Lizards
2	Potvin	Ysera	Raider	The Lizards
3	HammerWraith	Ysera	Admin	The Lizards
4	Mcloven	Ysera	Raider	The Lizards
5	Kaysham	Ysera	Raider	The Lizards
6	Noranai	Ysera	SubAdmin	The Lizards
7	Jofts	Ysera	SubAdmin	The Lizards
8	Darkmek	Durotan	SubAdmin	The Lizards

ThePonies

Purpose:

This table is designed to show all the players who are from the Guild Friendship is

magic or as they call themselves The Ponies.

Create Statement

Create View ThePonies As (

Select ScreenName,Server,Rank,Guild

From RaidTeam

where Guild = 'Friendship is Magic'

);

Sample Data

	screenname character varying(12)	server character varying(200)	rank character varying(20)	guild character varying(30)
1	Quillnsofa	Arthor	Guest	Friendship is Magic
2	Vlyniswub	Arthor	Guest	Friendship is Magic
3	Geofrey	Arthor	Guest	Friendship is Magic

Pugs

Purpose:

This view or virtual table is designed to show everyone who does not belong to

'The Lizards' and 'Friendship is Magic.'

Create Statement

Create View Pugs As (

Select ScreenName,Server,Rank,Guild

From RaidTeam

where Guild not in ('Friendship is Magic','The Lizards')

);

Sample Data

	screenname character varying(12)	server character varying(200)	rank character varying(20)	guild character varying(30)
1	Redrodis	Ysera	Raider	The Lziards
2	Jaroq	Ysera	Guest	The Breach Of Faith
3	Geriaticc	Ysera	Guest	The Royal Red Devils
4	Cyclonic	WhisperWind	Guest	Reckless Aband
5	Xayu	WhisperWind	Guest	Reckless Aband
6	WytMagic	Ysera	Guest	True Lies

Reports

Purpose:

The purpose of this report is to the RaidTeam alphabetically in order to make it easier to find someone by their first name.

Query:

Select ScreenName,

RealName,

Server

From RaidTeam

Order by Realname ASC

Purpose:

The Purpose of this report is to sort ContactInfo by Guild starting at A->Z.

Query:

Select ScreenName,

RealName,

Guild,

Email

From ContactInfo

Order by Guild ASC

Purpose:

The purpose of this report is to group RaiderInfo by class starting with A->Z.

Query:

Select ScreenName,

      Class ,

      Guild

From RaiderInfo

Order by Class ASC;

Stored Procedures

Purpose:

This Stored Procedure is designed to log when changes are made to the Table RaidTeam. It will log them with a Time Stamp. The Time Stamp is formatted to show the current date followed by the time in a 24 hour format Ex: 01:00

Query:

Create or Replace Function Raid_log(timestamp) Returns Refcursor as
$$
Declare
Current_date_with_time TimeStamp; $1
Begin
Open   table 'RaidTeam_Log'
Select current_date
Insert into RaidTeam_Log (current_date_with_time)
Values
(current_date)
End;
$$
Language plpgsql;

Triggers

RaidTeam_Log

Purpose:
This trigger is designed to keep track of changes made to the table RaidTeam. It tracks what changes are made,when and where, not what was changed in the table.
Query
Create Trigger RaidTeam_Log
After Update on RaidTeam
For each row
Execute Procedure Raid_log();

RaiderInfo_Log

Purpose:
This trigger is designed to keep track of changes made to the table RaiderInfo.
It tracks what changes are made, when and where, not what was changed in the

table.

Query:
Create Trigger RaiderInfo_log
After Update on RaiderInfo
for each row
Execute Procedure Raider_Log();

ContactInfo_Log

Purpose:

The purpose of this trigger is to keep track of changes made to the table ContactInfo. It tracks what changes are made,when and where, not what was changed in the table.

Query:

Create trigger ContactInfo_Log
After Update on ContactInfo
For each row
Execute Procedure Contact_Log();

TeamSpeakInfo_Log

Purpose:

This trigger is designed to keep track of changes made to TeamSpeakinfo. It tracks what changes are made,when and where, not what was changed in the table.

Query:

Create Trigger TeamSpeakInfo_log
After Update on TeamSpeakInfo
For each row
Execute Procedure TeamSpeak_Log();

Security

There are going to be 3 main users for the database: RaidTeam, RaiderInfo,Contact

info.

RaidTeam :

Raiders will be able to interface   with the Database by way of an Admin or a Sub

admin. This will allow for the information to be kept up to date, but it will also

allow for some security to the table since there will only be three/four people able

to update the table.

Grant Insert on RaidTeam to Admins, SubAdmins;

RaiderInfo:

Raider will be able to supply Admins and SubAdmins with updated information about their character through Google forms, this will allow for a very clean update to be made to this table without fear that Admins/SubAdmins got any information wrong on their behalf.

Grant Insert to RaiderInfo to Admins, SubAdmins

ContactInfo:

Raider will be able to directly interact with this table in order to keep their Contact Information up to date so that Raid Leaders and the Admins will be able to keep in touch with them and get ahold of them quickly if needed.

Grant Insert To ContactInfo to Raiders

Implementation Notes

Known Problems

Some of the Known problems include,

-The Triggers

-The Stored Procedures.

Due to lack of experience and not understanding how Stored Procedures work. The Stored Procedures do not work, however that being said, they are designed to monitor and log events on the tables. For example, if a user is to delete, update, or insert data into the table, the trigger will go off and called the procedure in order to log changes that so there is an active log for the Database Admin in case there is a major change that is wrong it will be easier to see when that change happened and roll back the DataBase.