

# Summoners Lisc

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- List of source code and description
  - GUIs and Screenshot
  - SQL Table Descriptions





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#### **Project Overview**

League of Legends is one the most popular MOBAs in the world, roughly having a player base of 115 million people. Because this game is constantly growing, our application Summoners List was created to display information of every champion to help new and already existing players.

Summoners List allows players to easily search up their favorite champions and get basic information on them. It displays their class, damage types, possible positions that you may play the champion in, and any information that would help a player excel with each champion.

#### **Business Rules**

Champions are identified by a champion ID and the system records each champion's name, damage type, position, class, prices, number of skins and when they were released

Because Champions can have multiple potential lane positions, and roles separate tables are generated and use the champion ID as a foreign key to feed the data back to the system.

Skins are identified by a skin ID, and links to the Champion via the champion ID. The system records the theme, name, tier, various prices, whether or not it can be acquired via gemstones, and whether or not it is unlockable.

Abilities are identified by the champion ID and current records the Q, W, E, R and passive skill names.





#### Database Structure<sup>1</sup>

The database consists of five tables. The main tables are Champion and Skin. The other three are mostly extensions of Champion information though are displayed as their own tables. Champion is the major table which has it's primary key used as a foreign key in all other tables.

Database Table Name	Description
Champion	Contains basic information about all champions in the database.
Skin	Contains basic information about the skins of various champions.
Abilities	Contains the names of the champions' various abilities as a separate set that can be modified.
Role	Contains the champions class, or role. This gives a basic idea as to how the champion plays.
Lane	Contains the champions, lanes that they can play in. These lanes are positions that the champion is primarily used in.

#### **Example Tables**

Champion						
CID	Name	DamageType	SkinNumber	ReleaseDate	BEPrice	RPPrice
1	Aatrox	AD	18	2013-06-13	4800	880
2	Ahri	AP	14	2011-12-14	3150	790

<sup>&</sup>lt;sup>1</sup> Values are examples and may not represent the completed database.







Skin								
SID	CID	SkinTheme	Name	Tier	OEPrice 2	RPPrice	Gemstones <sup>3</sup>	Unlock able
1	2	Original	Original Ahri	1	0	790	0	1
9	2	K/DA	K/DA Ahri	2	1050	1350	0	1

Role		
CID	RID	Class
21	4	Diver
21	9	Assassin
1	3	Juggernaut
3	9	Assassin

Lane		
CID	RID	Position
1	1	Тор
1	2	Middle
2	2	Middle
4	5	Support

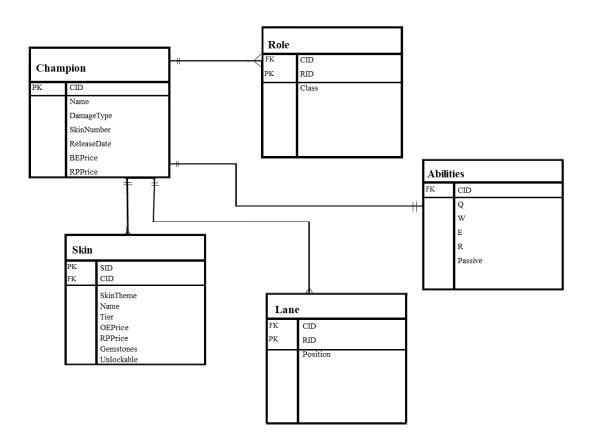
Abilities					
CID	Q	W	E	R	Passive

 $<sup>^2</sup>$  0 represents a null  $^3$  For gemstones and unlockable 0 represents false, 1 represents true. SQLite does not have a boolean data type and thus we use integers to represent it in a basic manner.



1	"The Darkin Blade"	"Infernal Chains"	"Umbral Dash"	"World Ender"	"Deathbringer Stance"
2	"Orb of Deception"	"Fox-Fire"	"Charm"	"Spirit Rush"	"Essence Theft"
3	"Five Point Strike"	"Twilight Shroud"	"Shuriken Flip"	"Perfect Execution"	"Assassin's Mark"

## Er diagram





## SQL tables

#### Champions

	<b>I</b> ∰ CID ≑	<b>J</b> ≣ Name ÷	<b>順</b> DamageType	ৣ≣ SkinNumber ÷	№ ReleaseDate ÷	贖 BEPrice ≎	ৣ≣ RPPrice ≎
		Aatrox	AD	18	2013-06-13	4800	880
		Ahri	AP	14	2011-12-14	3150	790
		Akali	AD	14	2010-05-11	3150	790
		Alistar	AP	15	2009-02-21	1350	585
		Amumu	AP	12	2009-06-26	450	260
		Anivia	AP	10	2009-07-10	3150	790
		Annie	AP	14	2009-02-21	450	260
		Aphelios			2019-12-11	6300	975
		Ashe	AD	13	2009-02-21	450	260
	10	Aurelion Sol	AP		2016-03-24	6300	975
11	11	Azir	AP		2014-09-16	4800	880
12	12	Bard	AP		2015-03-12	6300	975
13	13	Blitzcrank	AP	13	2009-09-02	3150	790
14	14	Brand	AP		2011-04-12	4800	880
15	15	Braum	AP		2014-05-12	4800	880
16	16	Caitlyn		11	2011-01-04	4800	880
17	17	Camille	AD		2016-12-07	6300	975
18	18	Cassiopeia	AP		2010-12-14	4800	880
19	19	Cho Gath	AP		2009-06-26	1350	585
		Corki	AD	10	2009-09-19	3150	790

#### Abilities

	源 CID ÷ 贈 Q	÷ <b>믥</b> ⊞ W	÷ <b>,</b> ⊞ E	‡ <b>إ</b> ≣ R	÷ 🍱 Passive
1	1 The Darkin Blade	Infernal Chains	Umbral Dash	World Ender	Deathbringer Stance
2	2 Orb of Deception	Fox-Fire	Charm	Spirit Rush	Essence Theft
3	3 Five Point Strike	Twilight Shroud	Shuriken Flip	Perfect Execution	Assassins Mark
4	4 Pulverize	Headbutt	Trample	Unbreakable Will	Triumphant Roar
5	5 Bandage Toss	Despair	Tantrum	Curse of the Sad Mummy	Cursed Touch
6	6 Flash Frost	Crystallize	Frostbite	Glacial Storm	Rebirth
7	7 Disintegrate	Incinerate	Molten Shield	Summon: Tibbers	Pyromania
8	8 Weapon Abilities	Phase	Weapon Queue System	Moonlight Vigil	The Hitman and the Seer
9	9 Rangers Focus	Volley	Hawkshot	Enchanted Crystal Arro	w Frost Shot
10	10 Starsurge	Celestial Expansion	Comet of Legend	Voice of Light	Center of the Universe
11	11 Conquering Sands	Arise!	Shifting Sands	Emperors Divide	Shurimas Legacy
12	12 Cosmic Binding	Caretakers Shrine	Magical Journey	Tempered Fate	Travelers Call
13	13 Rocket Grab	Overdrive	Power Fist	Static Field	Mana Barrier
14	14 Sear	Pillar of Flame	Conflagration	Pyroclasm	Blaze
15	15 Winters Bite	Stand Behind Me	Unbreakable	Glacial Fissure	Concussive Blows
16	16 Piltover Peacemaker	Yordle Snap Trap	90 Caliber Net	Ace in the Hole	Headshot
17	17 Precision Protocol	Tactical Sweep	Hookshot	The Hextech Ultimatum	Adaptive Defenses
18	18 Noxious Blast	Miasma	Twin Fang	Petrifying Gaze	Serperntine Grace
19	19 Rupture	Feral Scream	Vorpal Spikes	Feast	Carnivore
20	20 Phosphorus Bomb	Valkyrie	Gatling Gun	Missile Barrage	Hextech Munitions





## Role Lane

	<b>Ņ</b> CID ÷	<b>⊪</b> RID ≑	ा Class ÷
1	1	1	Juggernaut
2	2	2	Burst
3	3	3	Assassin
4	4	4	Vanguard
5	5	5	Vanguard
6	6	6	Battlemage
7	7	7	Burst
8	8	8	Marksman
9	9	9	Marksman
10	10	10	Battlemage
11	11	11	Specialist
12	12	12	Catcher
13	13	13	Catcher
14	14	14	Burst
15	15	15	Warden
16	16	16	Marksman
17	17	17	Diver
18	18	18	Battlemage
19	19	19	Specialist
20	20	20	Marksman

	<b>Ņ</b> CID ÷	<b>⊪</b> PID ≑	■ Position ÷
1	1	1	Тор
2	1	2	Middle
3	2	3	Middle
	3		Тор
	3	5	Middle
			Support
	5	7	Jungle
	6	8	Middle
	7	9	Middle
10	8	10	Bottom
11	9	11	Bottom
12	10	12	Middle
13	11	13	Middle
14	12	14	Support
15	13	15	Support
16	14	16	Support
17	15	17	Support
18	16	18	Bottom
19	17	19	Тор
20	17	20	Middle
21	18	21	Тор
22	18	22	Middle
23	19	23	Тор
24	19	24	Middle
25	20	25	Middle





## Skins

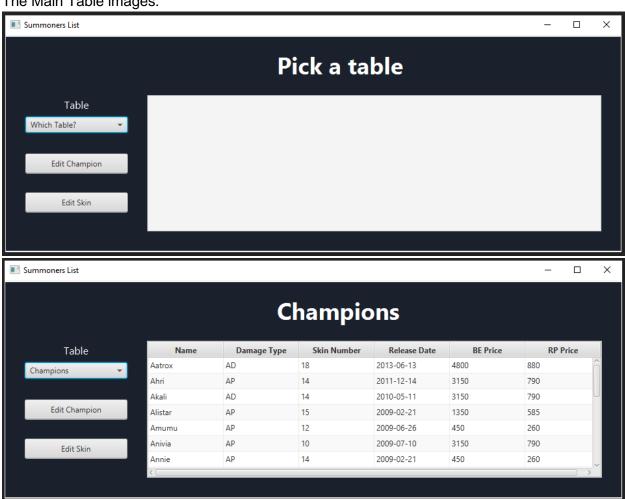
1		<b>‼</b> ₹SID ÷	S CID ÷ ■ SkinTheme	⇒ 月 Name	÷ 賵Tier ÷	■ OEPrice ÷	I≣ RPPrice ≎	<b>I</b> Gemstones ⇒	II Unlockable ÷
2	1								1
3									1
4									1
0	4		1 Limitied	Victorious Aatrox					Θ
7	5		3 Original	Original Akali	Regular		790		1
7	6		3 Blood Moon	Blood Moon Akali	Regular				1
P	7		4 Original	Original Alistar			585		1
10	8		4 Infernal	Infernal AListar	Regular				1
11	9		5 Original	Original Amumu	Regular				1
12	10		5 Infernal	Infernal Amumu	Epic		1350		1
13	11	11	6 Original	Original Anivia	Regular		790		1
14	12	12	6 Papercraft	Papercraft Anivia	Epic		1350		1
15	13	13	7 Original	Original Annie	Regular				1
16	14		7 Super Galaxy	Super Galaxy Annie			1350		1
17	15		8 Original	Original Aphelios	Regular				1
18	16		8 Nightbringer	Nightbringer Aphelios		1050	1350		1
19	17	17	9 Original	Original Ashe	Regular				1
20   20   10 Infernal   Ashen Lord Aurelion Sol   Epic   1050   1350   0   1	18		9 PROJECT	PROJECT Ashe	Legendary		1820		1
21       21       11 Original       Original Azir       Regular <null>       880       0       1         22       22       11 Galactic       Galactic Azir       Regular       675       975       0       1         23       23       12 Original       Original Bard       Regular       <null>       975       0       1         24       24       12 Elderwood       Elderwood Bard       Regular       675       975       0       1         25       25       13 Original       Original Bitzcrank       Regular       <null>       790       0       1         26       26       13 Program       iBlitzcrank       Epic       1050       1350       0       1         27       27       14 Original       Original Brand       Regular       <null>       880       0       1         28       28       14 Arclight       Arclight Brand       Chroma       1050       1350       0       1         29       29       15 Original       Original Braum       Regular       <null>       880       0       1         30       30       15 Sugar Rush       Sugar Rush Braum       Epic       1050       13</null></null></null></null></null>	19		10 Original	Original Aurelion Sol	Regular				1
22         22         11 Galactic         Galactic Azir         Regular         675         975         0         1           23         23         12 Original         Original Bard         Regular <null>         975         0         1           24         24         12 Elderwood         Elderwood Bard         Regular         675         975         0         1           25         25         13 Original         Original Blitzcrank         Epic         1050         1350         0         1           26         26         13 Program         iBlitzcrank         Epic         1050         1350         0         1           27         27         14 Original         Original Brand         Regular         <null>         880         0         1           28         28         14 Arclight         Arclight Brand         Chroma         1050         1350         0         1           29         29         15 Original         Original Braum         Regular         <null>         880         0         1           30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1</null></null></null>	20		10 Infernal	Ashen Lord Aurelion Sol	Epic	1050	1350		1
23         23         12 Original         Original Bard         Regular <null>         975         0         1           24         24         12 Elderwood         Elderwood Bard         Regular         675         975         0         1           25         25         13 Original         Original Blitzcrank         Regular         <null>         790         0         1           26         26         13 Program         iBlitzcrank         Epic         1050         1350         0         1           27         14 Original         Original Brand         Regular         <null>         880         0         1           28         28         14 Arclight         Arclight Brand         Chroma         1050         1350         0         1           29         29         15 Original         Original Braum         Regular         <null>         880         0         1           30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1           31         31         10 Original         Original Caitlyn         Regular         <null>         880         0         1           &lt;</null></null></null></null></null>	21		11 Original	Original Azir	Regular		880		1
24         24         12 Elderwood         Elderwood Bard         Regular         675         975         0         1           25         25         13 Original         Original Blitzcrank         Regular <null>         790         0         1           26         26         13 Program         iBlitzcrank         Epic         1050         1350         0         1           27         14 Original         Original Brand         Regular         <null>         880         0         1           28         28         14 Arclight         Arclight Brand         Chroma         1050         1350         0         1           29         29         15 Original         Original Braum         Regular         <null>         880         0         1           30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1           31         31         16 Original         Original Caitlyn         Regular         <null>         880         0         1           32         32         16 Pulsefire         Pulsefire Caitlyn         Legendary         1520         1820         0         1</null></null></null></null>	22		11 Galactic	Galactic Azir	Regular				1
25         25         13 Original         Original Blitzcrank         Regular <null>         790         0         1           26         26         13 Program         iBlitzcrank         Epic         1050         1350         0         1           27         27         14 Original         Original Brand         Regular         <null>         880         0         1           28         28         14 Arclight         Arclight Brand         Chroma         1050         1350         0         1           29         29         15 Original         Original Braum         Regular         <null>         880         0         1           30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1           31         31         16 Original         Original Caitlyn         Regular         <null>         880         0         1           32         32         16 Pulsefire         Pulsefire Caitlyn         Legendary         1520         1820         0         1           33         37         Original         Original Camille         Regular         <null>         975         0         1</null></null></null></null></null>	23		12 Original	Original Bard	Regular				1
26         26         13 Program         iBlitzcrank         Epic         1050         1350         0         1           27         27         14 Original         Original Brand         Regular <null>         880         0         1           28         28         14 Arclight         Arclight Brand         Chroma         1050         1350         0         1           29         29         15 Original         Original Braum         Regular         <null>         880         0         1           30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1           31         31         0 Original         Original Caitlyn         Regular         <null>         880         0         1           32         32         10 Pulsefire         Pulsefire Caitlyn         Legendary         1520         1820         0         1           33         33         17 Original         Original Camille         Regular         <null>         975         0         1           34         37 Program         Program Camille         Epic         1050         1350         0         1           &lt;</null></null></null></null>	24		12 Elderwood	Elderwood Bard	Regular				1
27       14 Original       Original Brand       Regular <null>       880       0       1         28       28       14 Arclight       Arclight Brand       Chroma       1050       1350       0       1         29       29       15 Original       Original Braum       Regular       <null>       880       0       1         30       30       15 Sugar Rush       Sugar Rush Braum       Epic       1050       1350       0       1         51       31       16 Original       Original Caitlyn       Regular       <null>       880       0       1         32       32       16 Pulsefire       Pulsefire Caitlyn       Legendary       1520       1820       0       1         33       33       17 Original       Original Camille       Regular       <null>       975       0       1         34       34       17 Program       Program Camille       Epic       1050       1350       0       1         35       35       18 Original       Original Cassiopeia       Regular       <null>       880       0       1         36       36       18 High Noon       Desperada Cassiopeia       Regular       <null></null></null></null></null></null></null>	25		13 Original	Original Blitzcrank	Regular		790		1
28       28       14 Arclight       Arclight Brand       Chroma       1050       1350       0       1         29       29       15 Original       Original Braum       Regular <null>       880       0       1         30       30       15 Sugar Rush       Sugar Rush Braum       Epic       1050       1350       0       1         31       31       16 Original       Original Caitlyn       Regular       <null>       880       0       1         32       32       16 Pulsefire       Pulsefire Caitlyn       Legendary       1520       1820       0       1         33       33       17 Original       Original Camille       Regular       <null>       975       0       1         34       34       17 Program       Program Camille       Epic       1050       1350       0       1         35       35       18 Original       Original Cassiopeia       Regular       <null>       880       0       1         36       36       18 High Noon       Desperada Cassiopeia       Regular       20       520       0       1         37       37       19 Original       Original Cho Gath       Regular</null></null></null></null>	26		13 Program	iBlitzcrank	Epic		1350		1
29         29         15 Original         Original Braum         Regular <null>         880         0         1           30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1           31         31         16 Original         Original Caitlyn         Regular         <null>         880         0         1           32         32         16 Pulsefire         Pulsefire Caitlyn         Legendary         1520         1820         0         1           33         33         17 Original         Original Camille         Regular         <null>         975         0         1           34         34         17 Program         Program Camille         Epic         1050         1350         0         1           35         35         18 Original         Original Cassiopeia         Regular         <null>         880         0         1           36         36         18 High Noon         Desperada Cassiopeia         Regular         20         520         0         1           37         37         19 Original         Original Cho Gath         Regular         <null>         555         0</null></null></null></null></null>	27		14 Original	Original Brand	Regular		880		1
30         30         15 Sugar Rush         Sugar Rush Braum         Epic         1050         1350         0         1           31         31         16 Original         Original Caitlyn         Regular <null>         880         0         1           32         32         16 Pulsefire         Pulsefire Caitlyn         Legendary         1520         1820         0         1           33         33         17 Original         Original Camille         Regular         <null>         975         0         1           34         34         17 Program         Program Camille         Epic         1050         1350         0         1           35         35         18 Original         Original Cassiopeia         Regular         <null>         880         0         1           36         36         18 High Noon         Desperada Cassiopeia         Regular         20         520         0         1           37         37         19 Original         Original Cho Gath         Regular         <null>         585         0         1           38         38         19 High Society         Gentleman Cho Gath         Legendary         1520         1820         0<!--</td--><td>28</td><td></td><td>14 Arclight</td><td>Arclight Brand</td><td>Chroma</td><td></td><td>1350</td><td></td><td>1</td></null></null></null></null>	28		14 Arclight	Arclight Brand	Chroma		1350		1
31   31   31   31   31   31   31   31	29		15 Original	Original Braum	Regular		880		1
32         32         16 Pulsefire         Pulsefire Caitlyn         Legendary         1520         1820         0         1           33         33         17 Original         Original Camille         Regular <null>         975         0         1           34         34         17 Program         Program Camille         Epic         1050         1350         0         1           35         35         18 Original         Original Cassiopeia         Regular         <null>         880         0         1           36         36         18 High Noon         Desperada Cassiopeia         Regular         220         520         0         1           37         37         19 Original         Original Cho Gath         Regular         <null>         585         0         1           38         38         19 High Society         Gentleman Cho Gath         Legendary         1520         1820         0         1           39         39         20 Original         Original Corki         Regular         <null> <null>         790         0         1</null></null></null></null></null>	30	30	15 Sugar Rush	Sugar Rush Braum	Epic	1050	1350	0	1
33         33         17 Original         Original Camille         Regular <null>         975         0         1           34         34         17 Program         Program Camille         Epic         1050         1350         0         1           35         35         18 Original         Original Cassiopeia         Regular         <null>         880         0         1           36         36         18 High Noon         Desperada Cassiopeia         Regular         220         520         0         1           37         37         19 Original         Original Cho Gath         Regular         <null>         585         0         1           38         38         19 High Society         Gentleman Cho Gath         Legendary         1520         1820         0         1           39         39         20 Original         Original Corki         Regular         <null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null><null< td=""></null<></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null></null>	31	31	16 Original	Original Caitlyn	Regular	<null></null>	880	Θ	1
34         34         17 Program         Program Camille         Epic         1050         1350         0         1           35         35         18 Original         Original Cassiopeia         Regular <null>         880         0         1           36         36         18 High Noon         Desperada Cassiopeia         Regular         220         520         0         1           37         37         19 Original         Original Cho Gath         Regular         <null>         585         0         1           38         38         19 High Society         Gentleman Cho Gath         Legendary         1520         1820         0         1           39         39         20 Original         Original Corki         Regular         <null><null><null><null>         790         0         1</null></null></null></null></null></null>	32		16 Pulsefire	Pulsefire Caitlyn	Legendary		1820		1
35     35     18 Original     Original Cassiopeia     Regular <null>     880     0     1       36     36     18 High Noon     Desperada Cassiopeia     Regular     220     520     0     1       37     37     19 Original     Original Cho Gath     Regular     <null>     585     0     1       38     38     19 High Society     Gentleman Cho Gath     Legendary     1520     1820     0     1       39     39     20 Original     Original Corki     Regular     <null><null>790     0     1</null></null></null></null>	33		17 Original	Original Camille	Regular				1
36     36     18 High Noon     Desperada Cassiopeia     Regular     220     520     0     1       37     37     19 Original     Original Cho Gath     Regular <null>     585     0     1       58     38     19 High Society     Gentleman Cho Gath     Legendary     1520     1820     0     1       39     39     20 Original     Original Corki     Regular     <null><null>790     0     1</null></null></null>	34		17 Program	Program Camille	Epic		1350		1
37     37     19 Original Original Cho Gath     Regular <null>     585     0     1       38     38     19 High Society     Gentleman Cho Gath     Legendary     1520     1820     0     1       39     39     20 Original     Original Corki     Regular     <null>     790     0     1</null></null>	35		18 Original	Original Cassiopeia	Regular		880		1
38         38         19 High Society         Gentleman Cho Gath         Legendary         1520         1820         0         1           39         39         20 Original         Original Corki         Regular <null>         790         0         1</null>	36		18 High Noon	Desperada Cassiopeia	Regular				1
39 39 20 Original Original Corki Regular <null> 790 0 1</null>	37		19 Original	Original Cho Gath	Regular				1
	38		19 High Society	Gentleman Cho Gath	Legendary		1820		1
40 40 20 Arcade Heroes Arcade Corki Fpic 1050 1350 0 1	39		20 Original	Original Corki	Regular		790		1
	40		20 Arcade Heroes	Arcade Corki		1050	1350		1



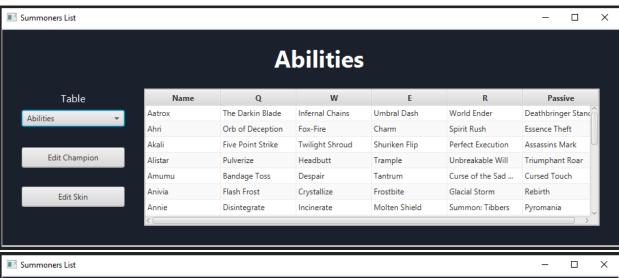
## **Application**

The main application is a window that shows the table of your choice, the table selector dropdown box and the edit buttons. To sort any of the columns in ascending or descending order click the

The Main Table images:





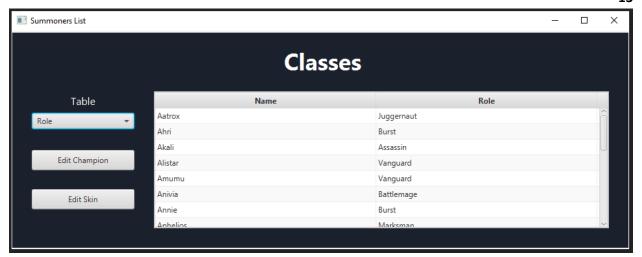






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Keep in mind to refresh the tables after updating, you need to select the table again from the drop down menu.

#### The Champion Edit Window:





#### The Edit Skin Window:



#### **Descriptive List of Source Code**

- 1. Main: Creates the main UI using the javafx "sample.fxml" file.
- 2. Controller. Creates the handler for the edit champion and edit skin buttons, and produces all of the tables. Controller for "sample.fxml".
  - a. champHandler() Upon pressing edit champion, displays the champion edit window using the **display** function.
  - b. skinHandler() Upon pressing edit skin, displays the skin edit window using the **display** function.
  - c. initialize() adds the tables to the combo box.
  - d. pickTable() Creates the tables for Champions, Abilities, Skins, Lanes, and Roles then assigns the scroll box's value depending on which table is selected using getChampionList, getAbilityList, getSkinList, getLaneList and getRoleList from the ChampDataAccessor respectively.
- 3. *ChampDataAccessor:*<sup>4</sup> Handles all sql use. Adding, updating, removing from the database or sending data to the application.
  - a. getChampionObvList() Returns array list of champion names for use in the combo boxes within the *ChampionTable* display.
  - b. getSkinArrayList() Returns an array list of skin names for use in the combo boxes within the *SkinTable* display.
  - c. get(blank)List() Selects specified list from sql code.
  - d. add(blank)() adds entities into a table within the database file.
  - e. rm(blank)() removes entities from the table within the database file.
  - f. upd(blank)() updates entities in a table within the database file.

<sup>&</sup>lt;sup>4</sup> Generalized some methods into groups because they roughly do the same thing and there are a lot of methods.



- 4. ChampionTable: Uses text fields, combo boxes and buttons to update, add or remove champion entities from the champions table. Controller for "EditC.fxml".
  - a. initialize() adds the champions to the combo boxes.
  - b. updateAction() Upon pressing update takes the values from the related combo box, text fields, and drop down and sends them to the.
     updChampion, updRole, updLane, updAbility method within ChampDataAccessor to update the champion, role, lane, and abilities tables.
  - c. addAction() Upon pressing Add takes the values from the text fields and sends them to the **addChampion**, **addRole**, **addLane**, **addAbility** method within *ChampDataAccessor* to add a champion, role, lane, and ability entity to the champions, role, lane, abilities tables respectively.
  - d. removeAction() Upon pressing Remove takes the value from the related combo box and sends the data to the rmChampion method within ChampDataAccessor to remove the champion from the table. Because the ON DELETE CASCADE refused to work in IntelliJ despite working find in a terminal environment, we brute forced a cascade delete within rmChampion.
- 5. *SkinTable*: Uses text fields, combo boxes, check boxes and buttons to update, add or remove skin entities from the skin table. Controller for "EditS.fxml".
  - a. initialize() adds the skins to the combo boxes
  - b. updateAction() Upon pressing update takes the values from the related combo box, text fields, check boxes, and drop down and sends them to the updSkin method within ChampDataAccessor to update the skin table.
  - c. addAction() Upon pressing Add takes the values from the text fields and check boxes and sends them to the **addSkin** method within *ChampDataAccessor* to add a skin to the skin table.
  - d. removeAction() Upon pressing Remove takes the value from the related combo box and sends the data to the **rmSkin** method within *ChampDataAccessor* to remove the skin from the table.
- 6. Champion: Takes the name of the champion, their damage type, release date, number of skins, BE price and RP price and loads them onto the display table in the GUI with the various gets and sets.
- 7. *Skin*: Takes the name of the champion, the name of their skin, the skin's theme, its tier, OE price, RP price, if you need gemstones and if it is unlockable and loads them onto the display table in the GUI with the various gets and sets.
- 8. Abilities: Takes the name of the champion and their ability names (e.g., q) to load onto the display table in the GUI with the various gets and sets.
- 9. *Class*: Takes the name of the champion and role to load onto the display table in the GUI with the various gets and sets.
- 10. *Lane*: Takes the name of the champion and position to load onto the display table in the GUI with the various gets and sets.
- 11. sample.fxml: The JavaFX file connected to Controller. Contains the main Table view and buttons to access the other windows.



- 12. *EditC.fxml:* The JavaFX file connected to *ChampionTable*. Contains the information for displaying the window for editing champions.
- 13. *EditS.fxml:* The JavaFX file connected to *SkinTable*. Contains the information for displaying the window for editing skins.

