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Net-Centric Computing

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Assignment due 4/6/2016

## Shady Database Containing League of Legends Characters

For this assignment, I decided to create tables to sort and select certain characters from the game League of Legends because, well...

The screenshot shows a database management interface with two panels. The left panel displays the SQL query `SELECT * from ncJonathanR.Lanes;` and its result grid. The right panel displays the SQL query `SELECT * FROM ncJonathanR.Roles;` and its result grid. Both result grids include a 'Filter Rows' input field and an 'Edit' button.

**Left Panel: ncJonathanR.Lanes**

LaneID	Lane
1	Top
2	Jungle
3	Middle
4	Bottom
NULL	NULL

**Right Panel: ncJonathanR.Roles**

RoleID	Role	PrimaryLaneID	SecondaryLaneID
1	Assassin	3	2
2	Fighter	1	2
3	Mage	3	1
4	Marksman	4	NULL
5	Support	4	NULL
6	Tank	1	2
NULL	NULL	NULL	NULL

1 • `SELECT * FROM ncJonathanR.Champions;`

<div><div>&lt;</div><div>Result Grid</div><div><div></div><div></div></div><div>Filter Rows: <input type="text"/></div><div>Edit: <div><div></div><div></div></div></div><div>Export/Import: <div><div></div><div></div></div></div><div>W</div></div>						
	ChampionID	Champion	PrimaryLaneID	PrimaryRoleID	SecondaryLaneID	SecondaryRoleID
	1	Aatrox	1	2	2	2
	2	Ahri	3	3	3	1
	3	Akali	1	1	3	1
	4	Alistar	4	5	NULL	NULL
	5	Amumu	2	6	NULL	NULL
	6	Anivia	3	3	NULL	NULL
	7	Annie	3	3	4	5
	8	Ashe	4	4	NULL	NULL
	9	Aurelion Sol	3	3	NULL	NULL
	10	Azir	3	3	NULL	NULL
	11	Bard	4	5	NULL	NULL
	12	Blitzcrank	4	5	NULL	NULL
	13	Brand	3	3	NULL	NULL
	14	Braum	4	5	NULL	NULL
	15	Caitlyn	4	4	NULL	NULL
	16	Cassiopeia	3	3	NULL	NULL
	17	Cho'Gath	1	3	NULL	NULL

1 • `SELECT * FROM ncJonathanR.Champions;`

Result Grid

Filter Rows:

Edit:

Export/Import:

	ChampionID	Champion	PrimaryLaneID	PrimaryRoleID	SecondaryLaneID	SecondaryRoleID
	116	Vi	2	2	NULL	NULL
	117	Viktor	3	3	NULL	NULL
	118	Vladimir	1	3	3	3
	119	Volibear	2	2	1	2
	120	Warwick	2	2	1	2
	121	Wukong	1	2	2	2
	122	Xerath	3	3	NULL	NULL
	123	Xin Zhao	2	2	NULL	NULL
	124	Yasuo	3	1	1	1
	125	Yorick	1	2	NULL	NULL
	126	Zac	2	6	1	6
	127	Zed	3	1	NULL	NULL
	128	Ziggs	3	3	NULL	NULL
	129	Zilean	4	5	3	3
▶	130	Zyra	4	5	3	3
*	NULL	NULL	NULL	NULL	NULL	NULL

With 4 in-game positions, 6 in-game roles, and 130 champions, there's a lot of potential data there to select and sort.

(Note for in case this is shown to the class (which I know it will be): Some of these data values may or may not be my opinion on how certain champions act.)

Combining the Roles and Lanes tables (not the cross-product, mind you) creates these two tables showing the trends for where particular roles tend to go:

1 •  
2  
3  
4  
5 •  
6  
7

```
SELECT Role, Lane as PrimaryLane
FROM ncJonathanR.Lanes, ncJonathanR.Roles
WHERE PrimaryLaneID = LaneID;

SELECT Role, Lane as SecondaryLane
FROM ncJonathanR.Lanes, ncJonathanR.Roles
WHERE SecondaryLaneID = LaneID;
```

1 •  
2  
3  
4  
5 •  
6  
7

```
SELECT Role, Lane as PrimaryLane
FROM ncJonathanR.Lanes, ncJonathanR.Roles
WHERE PrimaryLaneID = LaneID;

SELECT Role, Lane as SecondaryLane
FROM ncJonathanR.Lanes, ncJonathanR.Roles
WHERE SecondaryLaneID = LaneID;
```

Result Grid | Filter Rows: | Export: | W

	Role	PrimaryLane
►	Fighter	Top
	Tank	Top
	Assassin	Middle
	Mage	Middle
	Marksman	Bottom
	Support	Bottom

Result Grid | Filter Rows: | Export: | W

	Role	SecondaryLane
►	Assassin	Jungle
	Fighter	Jungle
	Tank	Jungle

Result 17 × Result 18

Result 17

Result 18 ×

Combining all 3 tables creates two tables explaining what each champion's role position and role are:

```
1 • SELECT Champion, Lane as PrimaryLane, Role as PrimaryRole
2 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
3 WHERE Champions.PrimaryLaneID = LaneID
4 and Champions.PrimaryRoleID = RoleID
5 GROUP BY Champion;
6
7 • SELECT Champion, Lane as SecondaryLane, Role as SecondaryRole
8 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
9 WHERE Champions.SecondaryLaneID = LaneID
10 and Champions.SecondaryRoleID = RoleID
11 GROUP BY Champion;
```

Champion	PrimaryLane	PrimaryRole
Jax	Top	Fighter
Jayce	Top	Assassin
Jhin	Bottom	Marksman
Jinx	Bottom	Marksman
Kalista	Bottom	Marksman
Karma	Bottom	Support
Karthus	Middle	Mage
Kassadin	Middle	Assassin
Katarina	Middle	Assassin
Kayle	Top	Marksman
Kennen	Top	Assassin
Kha'Zix	Jungle	Assassin
Kindred	Jungle	Marksman
Kog'Maw	Bottom	Marksman
LeBlanc	Middle	Assassin
Lee Sin	Jungle	Fighter
Leona	Bottom	Support

```

1 • SELECT Champion, Lane as PrimaryLane, Role as PrimaryRole
2 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
3 WHERE Champions.PrimaryLaneID = LaneID
4 and Champions.PrimaryRoleID = RoleID
5 GROUP BY Champion;
6
7 • SELECT Champion, Lane as SecondaryLane, Role as SecondaryRole
8 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
9 WHERE Champions.SecondaryLaneID = LaneID
10 and Champions.SecondaryRoleID = RoleID
11 GROUP BY Champion;

```

Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="button" value="Export"/>			
Wrap Cell Content: <input type="button" value="Wrap"/>			
Champion	SecondaryLane	SecondaryRole	
Jax	Jungle	Fighter	
Jayce	Middle	Assassin	
Karma	Middle	Mage	
Karthus	Top	Mage	
Kayle	Middle	Marksman	
Kennen	Middle	Assassin	
Lissandra	Top	Mage	
Lulu	Middle	Mage	
Maokai	Jungle	Tank	
Mordekaiser	Middle	Fighter	
Morgana	Middle	Mage	
Nautilus	Bottom	Support	
Nunu	Bottom	Support	
Olaf	Jungle	Fighter	
Pantheon	Jungle	Fighter	
Poppy	Jungle	Tank	
Quinn	Jungle	Marksman	

Result 23




Result 24 ×

Read Only

I can also easily select specific champions, like top-laners:

```
1 • SELECT DISTINCT Champion as TopLaneChamps
2 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
3 WHERE (Champions.PrimaryLaneID = 1
4        or Champions.SecondaryLaneID = 1);
```

<

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	TopLaneChamps
▶	Aatrox
	Akali
	Cho'Gath
	Darius
	Dr. Mundo
	Fiora
	Galio
	Gangplank
	Garen
	Gnar
	Graves
	Hecarim
	Heimerdinger
	Illaoi
	Irelia
	Jarvan IV
	Jax

Primary or secondary assassins:

```
1 SELECT DISTINCT Champion as Assassins
2 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
3 WHERE (Champions.PrimaryRoleID = 1
4        or Champions.SecondaryRoleID = 1);
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Assassins			
▶	Ahri			
	Akali			
	Diana			
	Ekko			
	Evelynn			
	Fizz			
	Jayce			
	Kassadin			
	Katarina			
	Kennen			
	Kha'Zix			
	LeBlanc			
	Master Yi			
	Nidalee			
	Rengar			
	Shaco			
	Talon			



Champions that are primarily Jungle fighters:

```
1 SELECT DISTINCT Champion as JungleFighters
2 FROM ncJonathanR.Champions, ncJonathanR.Lanes, ncJonathanR.Roles
3 WHERE Champions.PrimaryRoleID = 2
4 and Champions.PrimaryLaneID = 2;
```

<
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
JungleFighters
Hecarim
Jarvan IV
Lee Sin
Nocturne
Rek'Sai
Shyvana
Udyr
Vi
Volibear
Warwick
Xin Zhao

And so forth.