Dark Souls Relational Database

Designed and Documented by: Bradley Lamitie

Made for Database Management using material taught by Alan Labouseur

Executive Summary	3				
Entity Relationship Diagram	4				
Tables	5				
Items table	5				
Areas table	6				
Gamers table	7				
Enemies Table	8				
NonPlayerCharacters table	9				
PlayerCharacters table	10				
Inventory table	13				
ItemLocations table	14				
Drops table	15				
Sells table	16				
NonPlayerCharacterLocations table	17				
EnemyLocations table	18				
Views	19				
EnemyLocationInfo view	19				
ClaimableItems view	20				
Reports	21				
BossLocationInfo report	21				
Rare Item Info Report	21				
Stored Procedures	22				
AdjacentAreastoMe(TEXT,TEXT, REFCURSOR)	22				
Security	23				
Supervisor Privileges	23				
Public Privileges	23				
Implementation Notes	24				
Enemies Table NonPlayerCharacters table PlayerCharacters table Inventory table ItemLocations table Drops table Sells table NonPlayerCharacterLocations table EnemyLocations table ews EnemyLocationInfo view ClaimableItems view BossLocationInfo report Rare Item Info Report cored Procedures AdjacentAreastoMe(TEXT,TEXT, REFCURSOR) applementation Notes					
NonPlayerCharacters table PlayerCharacters table Inventory table ItemLocations table Drops table Sells table NonPlayerCharacterLocations table EnemyLocations table Views EnemyLocationInfo view ClaimableItems view Reports BossLocationInfo report Rare Item Info Report Stored Procedures AdjacentAreastoMe(TEXT,TEXT, REFCURSOR) Security Supervisor Privileges Public Privileges					

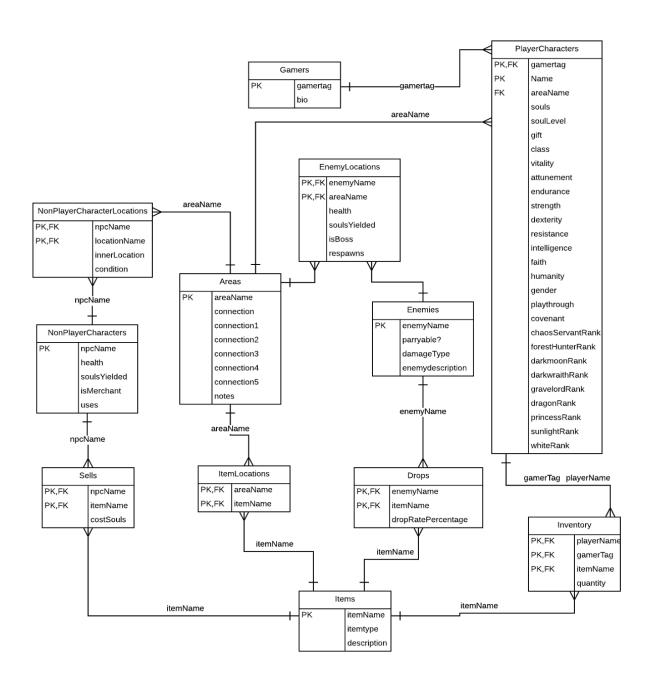
Executive Summary

This is the documentation of the Dark Souls database guide. This guide can be used to find locations of specific items, Non Player Characters, and Enemies. This guide is primarily targeting gamers, people interested in Dark Souls or other games, and game designers.

First, a walkthrough of the Entity Relationship diagram will be explained, followed by an explanation of all views and stored procedures. Next, Security clearance of the database is explained and finally a summary of all future enhancements and known problems.

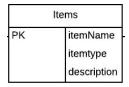
Entity Relationship Diagram

Database Design Project Dark Souls Database



Tables

Items table



itemName - the name of the item.

itemType - the type of item (consumable, upgrade material, armor, weapon, sorcery, pyromancy, miracle, or key). description - a brief description of the item's uses.

Create statement:

```
CREATE TABLE Items
```

```
itemName TEXT NOT NULL UNIQUE PRIMARY KEY, itemType TEXT NOT NULL, description TEXT NOT NULL);
```

Functional Dependencies:

itemName --> itemType,description

3	Binoculars	Key	Key Item used to view far away
P	Heal	Miracle	Heals a small amount of health
, [Great Heal Excerpt	Miracle	Heals a large amount of HP.
	Seek Guidance	Miracle	Show More online hints.
	Force	Miracle	This quickly-acting miracle inflicts no damage, but propels foes back and defends against arrows.
	Homeward	Miracle	Return to last used bonfire, similar to the Homeward Bone item.
	Talisman	Talisman	Used for casting miracles with MagAdjust of 118.
	Thorolund Talisman	Talisman	Used for casting miracles with fixed MagAdjust of 165.
	Soul Arrow	Sorcery	Shoots a fast projectile at target that does Magic damage
	Great Soul Arrow	Sorcery	Stronger Soul Arrow
	Heavy Soul Arrow	Sorcery	Slower Soul Arrow, but higher damage than Great
	Great Heavy Soul Arrow	Sorcery	Stronger Heavy Soul Arrow
	Magic Weapon	Sorcery	Must be used with catalyst in left hand, adds Magic damage to your right hand weapon
	Magic Shield	Sorcery	Must be used with catalyst in right hand, temporarily increases the stability of your shield

Areas table

Se	Areas	
PK areaName connection connection1 connection2 connection3 connection4 connection5		areaName - the name of the area connection - the name of an adjacent area connection1 - the name of an adjacent area connection2 - the name of an adjacent area connection3 - the name of an adjacent area connection4 - the name of an adjacent area
	connection5 notes	connection5 - the name of an adjacent area notes - any important information the user should know about the are

Create statement:

```
CREATE TABLE Areas
                                     NOT NULL UNIQUE PRIMARY KEY,
                        TEXT
      areaName
                        TEXT
                                     NOT NULL,
      connection
                                     DEFAULT(' '),
                        TEXT
      connection1
                        TEXT
                                     DEFAULT(''),
      connection2
                                     DEFAULT(''),
                        TEXT
      connection3
                                     DEFAULT(''),
                        TEXT
      connection4
                                     DEFAULT(''),
                        TEXT
      connection5
      notes
                        TEXT
);
```

Functional Dependencies:

areaName --> connection, conne

areaname text	connection text	connection1 text	connection2 text	connection3 text	connection4 text	connection5 text	notes text
Northern Undead Asylum	Firelink Shrine						Tutorial Level
Firelink Shrine	Undead Burg	The Catacombs	New Londo Ruins	Northern Undea	Undead Parish	Firelink Altar	First Hub. Anastacia of Astora in cage below the bonfire. Petrus of Thorolund of Way of White covena
Undead Burg	Firelink Shrine	Undead Parish	Darkroot Basin	Depths			NPC Solaire of Astora located on the bridge. Bonfire and Broken altar for Warrior of Sunlight under He
Undead Parish	Undead Burg	Darkroot Garden	Firelink Shrine	Sens Fortress			Location of the first Bell of Awakening. Oswald of Carim is located at the entrance of the Bell Tower.
The Depths	Blighttown	Undead Burg					None
Blighttown	Valley of the D	The Depths	The Great Hollow	Queelags Domain			Quelana of Izalith advanced pyromancy vendor. Shiva of the East Forest Keeper covenant vendor.
Quelaags Domain	Blighttown	Ash Lake					Location of the second Bell of Awakening. Quelaags Sister and Eingyi for Chaos Servant covenant.
The Great Hollow	Blighttown	Ash Lake					Hidden (and optional area) with no possibility to summon or getting summoned. Contains the most of
Ash Lake	The Great Holl						Hidden (and optional area) with no possibility to summon or getting summoned. Is also a dead end,
Sens Fortress	Undead Parish	Anor Londo					None
Anor Londo	Sens Fortress	The Dukes Archi	Painted World of				None
Painted World of Ariamis	Anor Londo						Optional, requires Peculiar Doll in order to enter the painting in Anor Londo
Kiln of the First Flame	Firelink Altar						Final area of the game.
The Dukes Archives	Anor Londo	Crystal Cave					None

Gamers table

3 2	Gamers
PK	gamertag
	bio

gamertag - the user's Xbox gamertag username bio - the players own biography

```
Create Statement:
CREATE TABLE Gamers
(
gamertag TEXT NOT NULL UNIQUE PRIMARY KEY, bio TEXT
);

Functional Dependencies:
gamertag --> bio
```

gamertag text	bio text
Cosmic0blivion	I Like food
WhiteKitten87	Meow
Fallout878	Fallout Boy!
AcexMerk	Hi, Im Eddie
PapaChopz	MasterShake Yo

Enemies Table

	Enemies						
PK enemyName							
	parryable						
	damageType						
	enemydescription						

enemyName - the name of the enemy
parryable - determines if the enemy's attacks can be parried.
damageType - the type of damage the enemy deals
enemydescription - a brief description about the enemy

Functional Dependencies: enemyName --> parryable, damageType, enemydescription

enemyname text	parryable boolean	damagetype text	enemydescription text
Armored Tusk	false	physical	A large, heavily armored boar.
Asylum Demon	false	physical	A lesser demon who guards the Undead Asylum, preventing the prisoners wit
Basilisk	false	curse	These frog-like creatures jump around and spit gas that can result in a curse
Butcher	false	physical	These cannibal butchers carry two weapons, a massive butcher blade and a
Channeler	false	physical/sorcery	The Channelers are powerful servants of Seath the Scaleless.
CragSpider	false	physical/fire	A Hollow transformed into a spider creature that is able to breathe fire.
Crystal Golem	false	physical	A golem created from Seaths experimentation with the Primordial Crystal.
Dragon Slayer Ornstein	false	physical/lightning	Ornstein is the captain of the Four Knights of Gwyn, and presumably, the lea
Executioner Smough	false	physical	Smough is the royal executioner of Anor Londo. He longs to be ranked with t
Gwyn, Lord of Cinder	true	physical/Fire	Gwyn is one of the gods that defeated the Everlasting Dragons long ago.
Havel the Rock	true	physical	Havel, the Rock was a bishop of the Way of White.
Hollow	true	physical	Hollows are undead who have lost their sanity.
Hydra	false	physical/sorcery	A giant aquatic serpent with many heads.
Moonlight Butterfly	false	Sorcery	Large magical butterfly created by Seath the Scaleless from magic.
Slime	false	physical	Slimey creatures that often drop from the ceiling.
Titanite Demon	false	physical/lightning	The Prowling Demons, also known as the Titanite Demons, are demons born

Nonf	PlayerCharacters					
PK npcName						
	health					
	soulsYielded					
	isMerchant					
	uses					

npcName - the name of the Non player Character
health - how much health an NPC has
soulsYielded - the amount of souls gained after killing the NPC
isMerchant - determines if the npc is a merchant or not
uses - what types of help the NPC offers

```
Create Statement: CREATE TABLE NonPlayerCharacters
```

```
npcName
                  TEXT
                             NOT NULL UNIQUE PRIMARY KEY,
  health
                  INT
                             NOT NULL,
  soulsYielded
                             NOT NULL,
                  INT
  isMerchant
                  BOOLEAN
                             NOT NULL,
                             NOT NULL
                  TEXT
  uses
);
```

Functional Dependencies:

npcName --> health, soulsYielded, isMerchant, uses

npcname text	health integer	soulsyielded integer	ismercha boolean	uses text
Oscar, knight of Astora	793	1000	true	gives you keys and an estus flask.
Snuggly the Crow	0	0	false	trades items for other items
Crestfallen Warrior	793	1000	false	gives some conversation
Petrus of Thorolund	594	1000	true	sells miracles
The Crow	0	0	false	transports the player back to Northern Undead Asylum
Anastacia of Astora	0	0	false	Levels up your Estus Flask
Griggs of Vinheim	659	1000	true	sells sorcery
Laurentius	719	1000	true	sells and levels up pyromancy
Big Hat Logan	719	1000	true	sells sorceries

PlayerCharacters table

1	Play	yerCharacters
Ì	PK,FK	gamertag
l	PK	playerName
l	FK	areaName
l		souls
1		soulLevel
l		gift
l		class
l		vitality
l		attunement
l		endurance
l		strength
l		dexterity
l		resistance
l		intelligence
l		faith
l		humanity
l		gender
l		playthrough
l		covenant
l		chaosServantRank
l		forestHunterRank
l		darkmoonRank
l		darkwraithRank
		gravelordRank
		dragonRank
		princessRank
		sunlightRank
		whiteRank

gamertag - the gamertag linked to the playerCharacter playerName - the name of the character the user creates areaName - the name of the location the playerCharacter is located souls - how many souls the user has accumulated soulLevel - the player's level gift - what gift the player picked when creating the character class - whatever class the player chose when creating the character Vitality - how many points the user has put into vitality Attunement - how many points the user has put into attunement Endurance - how many points the user has put into endurance Strength - how many points the user has put into strength Dexterity - how many points the user has put into dexterity Resistance - how many points the user has put into resistance Intelligence - how many points the user has put into intelligence Faith - how many points the user has put into faith Humanity - how many humanity the player has consumed Gender - the gender of the player character Playthrough - what playthrough the player is on Covenant - the covenant the player belongs to chaosServantRank - the player's rank in the chaos Servant covenant forestHunterRank - the player's rank in the Forest Hunter covenant darkmoonRank - the players rank in the Darkmoon covenant darkwraithRank - the players rank in the Darkwraiths covenant gravelordRank - the players rank in the Gravelord Servant covenant dragonRank - the players rank in the Path of the Dragon covenant princessRank - the players rank in the Princess Guard covenant sunlightRank - the players rank in the Sunlight Warrior covenant whiteRank - the players rank in the Way of the White covenant

```
Create Statement:
CREATE TABLE PlayerCharacters
  Gamertag
                   TEXT
                          NOT NULL references Gamers(gamertag),
                   TEXT
                           NOT NULL UNIQUE,
  playerName
  areaName
                   TEXT
                          NOT NULL references Areas(areaName),
  souls
                   INT
                          NOT NULL,
  soulLevel
                   INT
                          NOT NULL,
  gift
                   TEXT
                           NOT NULL,
  class
                   TEXT
                           NOT NULL,
  vitality
                   INT
                          NOT NULL,
                   INT
                          NOT NULL,
  attunement
  endurance
                   INT
                          NOT NULL,
  strength
                   INT
                          NOT NULL,
                   INT
  dexterity
                          NOT NULL,
  resistance
                   INT
                          NOT NULL,
  intelligence
                   INT
                          NOT NULL,
  faith
                   INT
                          NOT NULL,
  humanity
                   INT
                          NOT NULL,
                   CHAR
  gender
                          NOT NULL,
  playthrough
                   INT
                          NOT NULL,
                   TEXT,
  covenant
                          NOT NULL,
  chaosServantRank INT
  forestHunterRank
                   INT
                          NOT NULL,
  darkmoonRank
                   INT
                          NOT NULL,
  darkwraithRank
                   INT
                          NOT NULL,
                   INT
  gravelordRank
                          NOT NULL,
  dragonRank
                   INT
                          NOT NULL,
  princessRank
                   INT
                          NOT NULL,
  sunlightRank
                   INT
                          NOT NULL,
  whiteRank
                   INT
                          NOT NULL,
  PRIMARY KEY(gamertag, playerName)
);
```

Functional Dependencies:

(gamertag,playerName)--> areaName, souls, soulLevel, gift, class, vitality, attunement, endurance, strength, dexterity, resistance, intelligence, faith, humanity, gender, playthrough, covenant, chaosServantRank, forestHunterRank, darkmoonRank, darkwraithRank, gravelordRank, dragonRank, princessRank, sunlightRank, whiteRank

gamertag text	playername text	areaname text	souls integer	soullevel integer	gift text	class text
Cosmic0blivion	The Wall	Ash Lake	42	25825	Binoculars	Deprived
WhiteKitten87	Allen	Undead Parish	36	254856	Divine Blessing	Cleric
Cosmic0blivion	Steve	Northern Und	23	12345	Black Firebomb	Wanderer
PapaChopz	Destroyer	The Depths	1	0	Master Key	Pyroman
AcexMerk	Gretchen	Sens Fortress	356	1254	Old Witchs Ri	Sorcerer

vitality integer	attunement integer	endurance integer	strength integer	dexterity integer	resistance integer	intelligence integer	faith integer	humanity integer	gender character	playthr integer
12	15	18	16	24	85	56	8	6	М	1
3	26	89	75	11	10	5	26	5	М	2
13	29	17	24	24	24	24	3	1	М	2
1	1	12	52	3	15	12	20	16	М	1
15	48	20	11	11	11	14	15	16	М	3

covenant text	chaosse integer	foresthu integer	darkmoo integer	darkwrai integer	gravelor integer	dragonr integer	princess integer	sunlightr integer	whiterank integer
Way of the White	0	0	0	0	0	0	0	0	0
DarkWraith	1	2	1	1	0	3	2	4	1
Path of the Drag	1	1	1	1	1	2	1	1	0
DarkMoon	3	3	3	3	3	3	3	3	3
Princess Guard	1	1	1	1	1	1	1	1	2

Inventory table

Inve	entory	
PK,FK	playerName	playerName - the name of the character the user creates
PK,FK	gamerTag	Gamertag - the gamertag linked to the player character
PK,FK	itemName	itemName - the name of the item
	quantity	Quantity - how much the player has of the item specified

```
Create Statement:
```

```
CREATE TABLE Inventory
(

playerName TEXT NOT NULL references PlayerCharacters(playerName),
gamertag TEXT NOT NULL references Gamers(gamertag),
itemName TEXT NOT NULL references Items(itemName),
Quantity INT NOT NULL,
PRIMARY KEY (gamertag, itemName, playerName)
);
```

Functional Dependencies:

(gamertag, itemName, playerName)--> quantity

playerna text	gamertag text	itemname text	quantity integer
The Wall	Cosmic0blivion	Crystal Soul Spear	1
The Wall	CosmicOblivion	Heal	10
The Wall	Cosmic0blivion	Iron Flesh	1
The Wall	Cosmic0blivion	Sorcerers Catalyst	1
The Wall	Cosmic0blivion	Fire Orb	7
The Wall	Cosmic0blivion	Great Heavy Soul Arrow	1
The Wall	Cosmic0blivion	Bellowing Dragoncrest Ring	4
The Wall	Cosmic0blivion	Lingering Dragoncrest Ring	1
The Wall	Cosmic0blivion	Homing Crystal Soulmass	1
The Wall	Cosmic0blivion	Talisman	3
The Wall	CosmicOblivion	Crystal Magic Weapon	1
Steve	Cosmic0blivion	Great Heavy Soul Arrow	1
Steve	Cosmic0blivion	Fire Orb	1
Steve	Cosmic0blivion	Heal	1
Steve	Cosmic0blivion	Bellowing Dragoncrest Ring	2
Steve	Cosmic0blivion	Talisman	1
Steve CosmicOblivion		Sorcerers Catalyst	1

ItemLocations table

	Iten	nLocations
PK,F	K	areaName
PK,F	K	itemName
é:		117

areaName - the name of the location itemName - the name of the item

No functional dependencies.

areaname text	itemname text	
Northern Undead Asylum	Soul of a Lost Undead	
Northern Undead Asylum	Rusted Iron Ring	
Firelink Shrine	Soul of a Lost Undead	
Firelink Shrine	Firebomb	
Firelink Shrine	Large Soul of a Lost Undead	
Firelink Shrine	Homeward Bone	
Firelink Shrine	Binoculars	
Undead Burg	Throwing Knife	
Undead Burg	Soul of a Nameless Soldier	
Undead Burg	Soul of a Lost Undead	
Undead Burg	Gold Pine Resin	
Undead Burg	Black Firebomb	

Drops table

	(1)
	Drops
PK,FK	enemyName
PK,FK	itemName
	dropRatePercentage

enemyName - the name of the enemy itemName - the item that can drop from the enemy dropRatePercentage - the probability the item will drop.

Functional Dependencies:

(itemName,enemyName) --> dropRatePercentage

enemyname text	itemname text	droprate integer
Havel the Rock	Havels Ring	100
Titanite Demon	Demon Titanite	100
Titanite Demon	Titanite Catch Pole	20
Armored Tusk	Fang Boar Helm	25
Channeler	Channelers Trident	10
Butcher	Sack	100
Slime	Green Titanite Shard	2
Slime	Large Titanite Shard	2
Basilisk	Eye of Death	6
Crystal Golem	Blue Titanite Chunk	5
Hydra	Dusk Crown Ring	100
Hydra	Dragon Scale	100
Asylum Demon	Demons Great Hamm	100
Asylum Demon	Big Pilgrims Key	100
Asylum Demon	Humanity	100

Sells table

	Sells	
PK,FK	npcName	npcName - the name of the non player character selling the items
PK,FK	itemName	itemName - the name of the item being sold
	costSouls	costSouls - the amount the npc is selling the item for in souls

Functional Dependencies: (npcName,itemName)--> costSouls

npcname text	itemname text	costsouls integer	
Petrus of Thorolund	Heal	4000	
Petrus of Thorolund	Great Heal Excerpt	10000	
Petrus of Thorolund	Seek Guidance	2000	
Petrus of Thorolund	Force	4000	
Petrus of Thorolund	Homeward	8000	
Petrus of Thorolund	Talisman	1000	
Petrus of Thorolund	Thorolund Talisman	5000	
Griggs of Vinheim	Soul Arrow	1000	
Griggs of Vinheim	Great Soul Arrow	6000	
Griggs of Vinheim	Heavy Soul Arrow	2000	
Griggs of Vinheim	Great Heavy Soul Arrow	8000	
Griggs of Vinheim	Magic Weapon	3000	
Griggs of Vinheim	Magic Shield	3000	
Griggs of Vinheim	Aural Decoy	1000	

NonPlayerCharacterLocations table

NonPlayer	CharacterLocations	
PK,FK	npcName	npcName - name of the non Player Character
PK,FK areaName		areaName - name of the area the NPC is found in
	innerLocation	innerLocation - the location of the NPC in the area
	condition	Condition - the condition that must be met in order for the NPC to be located here

Create Statement:

```
CREATE TABLE NonPlayerCharacterLocations
```

```
npcName TEXT NOT NULL references NonPlayerCharacters(npcName), areaName TEXT NOT NULL references Areas(areaName), innerLocation TEXT NOT NULL, condition TEXT NOT NULL, PRIMARY KEY (npcName, areaName, innerLocation)
);
```

Functional Dependencies:

(npcName, areaName) --> innerLocation, condition

npcname text	areaname text	innerlocation text	condition text
Oscar, knight of Astora	Northern Undead Asylum	behind the wall the cannonball destroys	none
Snuggly the Crow	Northern Undead Asylum	after beating the first boss, further up the hill	none
Crestfallen Warrior	Firelink Shrine	sits against a wall near the bonfire.	none
Crestfallen Warrior	Anor Londo	attacks the player heading towards New Lond Ruins	Exhaust dialog and ring both bells
Petrus of Thorolund	Firelink Shrine	can be found near the elevator to Undead Parish	none
The Crow	Firelink Shrine	can be found after jumping off the elevator to Undead Parish	none
Anastacia of Astora	Firelink Shrine	Down the staircase on the left	none

EnemyLocations table

EnemyLocations		
PK,FK	enemyName	
PK,FK	areaName	
	health	
	soulsYielded	
	isBoss	
	respawns	
117	VII	

enemyName - name of the enemy
areaName - name of the area where the enemy is located
Health - how much health the enemy has
soulsYielded - how many souls the player earns by killing the enemy
isBoss - determines if the enemy is a boss or not
Respawns - determines if the enemy respawns or not

```
Create Statement:
```

```
CREATE TABLE EnemyLocations
```

```
enemyName
                  TEXT
                              NOT NULL references Enemies(enemyName),
  areaName
                  TEXT
                              NOT NULL references Areas(areaName),
  health
                  INT
                              NOT NULL,
  soulsYielded
                  INT
                              NOT NULL,
  isBoss
                  BOOLEAN
                              NOT NULL,
  respawns
                  BOOLEAN
                              NOT NULL,
  PRIMARY KEY (enemyName, areaName)
);
```

Functional Dependencies:

(enemyName, areaName) --> health, soulsYielded, isBoss, respawns

enemyname text	areaname text	health integer	soulsyiel integer	isboss boolean	respawns boolean
Hollow	Northern Undead Asylum	69	20	false	true
Hollow	Undead Parish	63	20	false	true
Hollow	Undead Burg	53	20	false	true
Hollow	The Depths	74	50	false	true
Hollow	Painted World of Ariamis	132	300	false	true
Havel the Rock	Undead Burg	1034	3000	false	false
Titanite Demon	Undead Parish	1506	2000	false	false
Titanite Demon	Sens Fortress	2510	3000	false	false
Titanite Demon	Anor Londo	2635	5000	false	false
Armored Tusk	Undead Parish	37	750	false	false

Views

EnemyLocationInfo view

Finds all Enemies and their locations

CREATE OR REPLACE VIEW EnemyLocationInfo
AS
SELECT DISTINCT e.*
FROM Areas a INNER JOIN EnemyLocations e ON a.areaName= e.areaName
ORDER BY e.areaName;
Select * from EnemyLocationInfo;

enemyname text	areaname text	health integer	soulsyiel integer	isboss boolean	respawns boolean
Dragon Slayer Ornstein	Anor Londo	5626	50000	true	false
Executioner Smough	Anor Londo	5736	50000	true	false
Titanite Demon	Anor Londo	2635	5000	false	false
Basilisk	Ash Lake	193	400	false	true
Hydra	Ash Lake	3863	10000	false	false
CragSpider	Blighttown	167	100	false	true
Gwyn, Lord of Cinder	Kiln of the First Flame	4185	70000	true	false
Asylum Demon	Northern Undead As	813	2000	true	false
Hollow	Northern Undead As	69	20	false	true
Hollow	Painted World of Ari	132	300	false	true
Titanite Demon	Sens Fortress	2510	3000	false	false

ClaimableItems view

Finds all Items lying on the ground in every location

CREATE OR REPLACE VIEW ClaimableItems
AS
SELECT DISTINCT a.areaName, itemName
FROM Areas a INNER JOIN ItemLocations il ON a.areaName=il.areaName
ORDER BY a.areaName;

Select * from ClaimableItems;

areaname text	itemname text	
Anor Londo	Demon Titanite	
Anor Londo	Soul of a Hero	
Anor Londo	Titanite Chunk	
Ash Lake	Dragon Scale	
Blighttown	Fire Keepers Soul	
Blighttown	Green Titanite Shard	
Blighttown	Humanity	
Blighttown	Large Soul of a Nameless Soldier	
Blighttown	Large Soul of a Proud Knight	
Blighttown	Large Titanite Shard	
Blighttown	Soul of a Proud Knight	
Blighttown	Twin Humanities	

Reports

BossLocationInfo report

Finds all Bosses and their locations

SELECT DISTINCT e.areaName AS "BossLocation", enemyName AS "BossName" FROM Areas a INNER JOIN EnemyLocations e ON a.areaName= e.areaName WHERE isBoss = true ORDER BY e.areaName;

Sample Data:

BossLocation text	BossName text		
Anor Londo	Executioner Smough		
Anor Londo	Dragon Slayer Ornstein		
Kiln of the First Flame	Gwyn, Lord of Cinder		
Northern Undead Asylum	Asylum Demon		
The Dukes Archives	Moonlight Butterfly		

Rare Item Info Report

Finds all Items with less than or equal to a 5% droprate, the enemies that drop them and the enemies locations.

SELECT DISTINCT d.itemName AS "Item Name", el.areaName AS "Enemy Location", e.enemyName AS "Enemy Name", dropRatePercentage AS "Drop Rate"
FROM Enemies e INNER JOIN Drops d ON d.enemyName= e.enemyName
INNER JOIN EnemyLocations el ON e.enemyName= el.enemyName

WHERE d.dropRatePercentage <= 5 ORDER BY el.areaName;

Item Name text	Enemy Location text	Enemy Name text	Drop Rate integer
Green Titanite Shard	The Depths	Slime	2
Large Titanite Shard	The Depths	Slime	2
Blue Titanite Chunk	The Dukes Archives	Crystal Golem	5

Stored Procedures

```
AdjacentAreastoMe(TEXT,TEXT, REFCURSOR)
finds Areas adjacent to a player specified by a gamertag and playerName
CREATE OR REPLACE FUNCTION AdjacentAreastoMe(TEXT, TEXT, REFCURSOR)
RETURNS refcursor AS
$$
DECLARE
 playersName TEXT
                       := $1;
 gamerstag TEXT
                       := $2;
 resultset REFCURSOR := $3;
BEGIN
 OPEN resultset FOR
   SELECT connection, connection1, connection2, connection3, connection4, connection5
   FROM PlayerCharacters p INNER JOIN Areas a ON p.areaName = a.areaName
   WHERE p.playerName = playersName AND p.gamertag = gamerstag;
 RETURN resultset;
END;
$$
LANGUAGE plpgsql;
SELECT AdjacentAreastoMe('The Wall','CosmicOblivion', 'results');
FETCH ALL FROM results;
```

Security

Supervisor Privileges

Restart all roles for supervisor. and regrant them privileges:

REVOKE ALL ON ALL TABLES IN SCHEMA public FROM supervisor; DROP ROLE supervisor; CREATE ROLE supervisor; GRANT SELECT, INSERT, UPDATE, DELETE ON ALL TABLES IN SCHEMA public TO supervisor;

Public Privileges

Grants Read only privileges to public GRANT SELECT ON ALL TABLES IN SCHEMA public TO PUBLIC;

Implementation Notes

The implementation could've went better. My original E/R diagram was a bit of a tangled mess. So this implementation is much easier, but it comes with a steep cost. A lot of detail was lost when I had to change my E/R diagram which set me behind a little bit, considering all my stored procedures were counting on the data that i cut out.

Known Problems

As mentioned above, the lack of depth with the data is a big problem, mostly because there's a lot of things that got left out.

Future Enhancements

Some future enhancements I have been considering is adding specific data and enter all the rest of it. Another enhancement I've been thinking of implementing is a web page linked to the database that would allow users to use it as a sort of walkthrough for their game.