

Disgaea 2 Database Michael Hercules Sirico

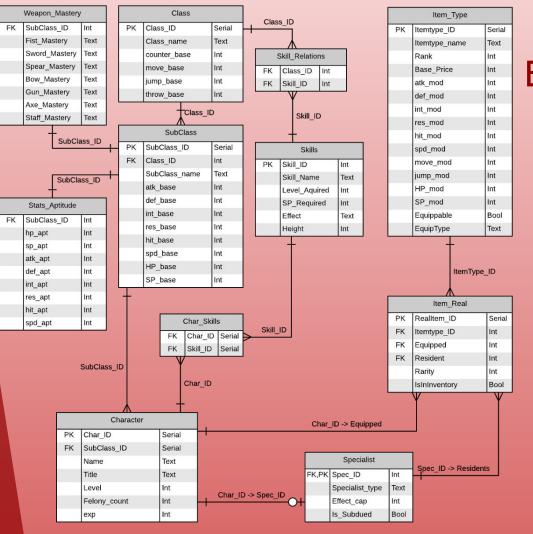
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Executive Summary

Disgaea 2 is a strategy role playing game that makes use of a lot of different game mechanics and a lot of data. The vast amount of information regarding Classes, Subclasses, base stats of these classes, and so on, may be overwhelming for players who are just beginning and starting out. For this reason, There should be an way to manage all the details and Data, so that nothing gets lost.

This database is a response to that, having been built to create and manage the vast majority of information and data that the game presents its players. By doing this, it will be far less likely that players will lose track of any sort of data, and they will have an easier time playing as a result of the data's organization and context.



ER-Diagram

Table: Class

This table holds the main information regarding Classes, including The Class name, and general base info about the Class

```
Create Table If Not Exists "Class" (
   "Class_ID" Serial Primary Key,
   "Class_name" Text Not Null,
   "counter_base" Int Not Null,
   "move_base" Int Not Null,
   "jump_base" Int Not Null,
   "throw_base" Int
);
```

Table: Class

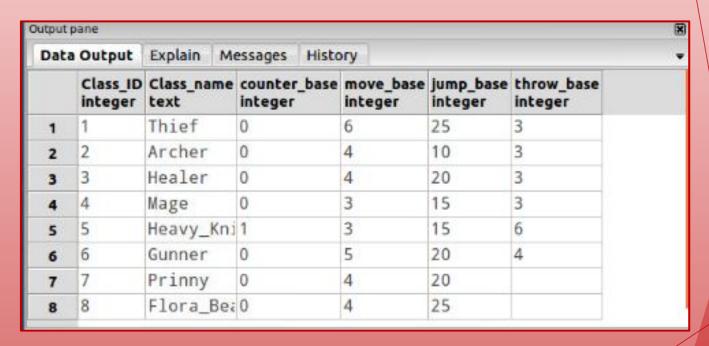


Table: SubClass

This table holds the main information regarding Sub-Classes.

```
create table if not exists "SubClass" (
  "Class_ID" Int references "Class"("Class_ID"),
  "SubClass_ID" Serial primary key,
  "SubClass_name" Text Not Null,
  "atk_base" Int Not Null,
  "def_base" Int Not Null,
  "int_base" Int Not Null,
  "res_base" Int Not Null,
  "hit_base" Int Not Null,
  "spd_base" Int Not Null,
  "spd_base" Int Not Null,
  "SP_base" Int Not Null)
);
```

Table: SubClass

Date	Output	Explain Me	essages History								
		SubClass_ID integer	SubClass_name text	atk_base integer	def_base integer	int_base integer	res_base integer		spd_base integer	HP_base integer	SP_base integer
1	1	1	Thief	10	7	8	10	12	16	14	11
2	1	2	Rogue	11	7	8	11	13	17	15	12
3	1	3	Scout	12	8	9	12	14	18	16	13
4	1	4	Bandit	13	8	9	13	15	19	17	14
5	1	5	Trickster	14	9	10	14	16	20	18	15
6	1	6	Master_Thie	15	9	10	15	17	21	19	16
7	2	7	Archer	12	7	8	14	16	7	14	12
8	2	8	Hunter	13	7	8	15	18	7	15	13
			at .	4.4.							4.4

Table: Weapon_Mastery

This table holds information regarding Mastery of Weapons, in Relation to specific SubClasses

```
create table if not exists "Weapon_Mastery" (
   "SubClass_ID" Int references "SubClass"("SubClass_ID"),
   "Fist_Mastery" Text,
   "Sword_Mastery" Text,
   "Spear_Mastery" Text,
   "Bow_Mastery" Text,
   "Gun_Mastery" Text,
   "Axe_Mastery" Text,
   "Staff_Mastery" Text);
);
```

Table: Weapon_Mastery

utput	pane							
Data	a Output Exp	olain Messag	es History					
	SubClass_ID integer	Fist_Mastery text	Sword_Mastery text	Spear_Mastery text	Bow_Mastery text	Gun_Mastery text	Axe_Mastery text	Staff_Master text
1	1	C	С	D	С	C	E	D
2	2	C	C	D	В	В	E	D
3	3	C	C	C	В	В	E	D
4	4	В	В	C	A	A	E	D
5	5	В	В	C	A	A	E	C
6	6	В	В	C	A	A	E	C
7	7	D	D	C	A	C	E	D
8	8	D	D	С	A	C	E	D
9	9	D	C	C	A	C	E	C
10	10	D	C	В	S	В	E	C
11	11	D	C	В	S	В	E	C
12	12	D	C	В	S	В	E	C
13	13	D	C	C	C	D	D	C
14	14	C	В	В	В	C	C	В

Table: Stats_Aptitude

This table holds Stat Aptitude Details for Sub-Classes

```
create table if not exists "Stats_Aptitude" (
   "SubClass_ID" Int references "SubClass"("SubClass_ID"),
   "hp_apt" Int Not Null,
   "sp_apt" Int Not Null,
   "atk_apt" Int Not Null,
   "def_apt" Int Not Null,
   "int_apt" Int Not Null,
   "res_apt" Int Not Null,
   "hit_apt" Int Not Null,
   "spd_apt" Int Not Null)
);
```

Table: Stats_Aptitude

Data	Output	Exp	olain M	lessages	History	Si I				
	SubClass integer	s_ID			atk_apt integer		A STATE OF THE PARTY OF THE PAR		The state of the s	
23	23		80	130	80	80	130	120	100	90
24	24		80	130	80	80	130	120	100	90
25	25		120	70	100	110	60	100	90	60
26	26		120	70	100	110	60	100	90	60
27	27		130	70	110	120	60	110	90	60

Table: Skills

This table holds Information Regarding all of the Skills

```
create table if not exists "Skills" (
   "Skill_ID" Serial primary key,
   "Skill_Name" Text Not Null,
   "Level_Aquired" Int Not Null,
   "SP_Required" Int Not Null,
   "Effect" Text Not Null,
   "Height" Int Not Null
);
```

Table: Skills

Data	Output	Explain	Messages	History			
	Skill_ID integer	Skill_Nan text	ne	Level_Aquired integer		Effect text	Height integer
14	14	Tera_E	Lem	80	405	Int	48
15	15	Prinny_	Dance	14	30	Atk	24
16	16	Prinny_	Bomb	34	80	Atk	12
17	17	Flower_	Dance	15	28	Res	24
18	18	Tri_Bur	st	1	8	Hit	20

Table: Skill_Relations

This table Shows the Relations of Which Skills
Are attainable by Which Classes

```
create table if not exists "Skill_Relations" (
   "Class_ID" Int references "Class"("Class_ID"),
   "Skill_ID" Int references "Skills"("Skill_ID")
);
```

Table: Skill_Relations

Output p	ane	
Data	Output	Explain
12	Class_ID integer	Skill_ID integer
13	3	10
14	4	10
15	3	11
16	4	11
17	3	12

Table: Character

This table details of all Characters that Exist

```
create table if not exists "Character" (
   "Char_ID" Serial primary key,
   "SubClass_ID" Int references "SubClass"("SubClass_ID"),
   "Name" Text,
   "Title" Text,
   "Level" Int,
   "Felony_count" Int,
   "exp" Int
);
```

Table: Character

utput	pane						
Dat	a Output	Explain M	essages His	tory			
		SubClass_ID integer	Name text	Title text		Felony_count integer	exp intege
1	1	36	Alan	Awesome Badass	33	3	67
2	2	26	Chris	Unwanted V7000	2	7	12
3	3	4	Jess	Sneaky_Bandit	34	7	78
4	4	46	Charles	Unfortunate_Soul	21	99	6
5	5	8	Nat	Bow_Hunter	18	0	12
6	6	40	Billy	Xhox Player	17	2	2

Table: Char_Skills

This table relates All existing Characters to Whatever Skills they have learned and achieved

```
create table if not exists "Char_Skills" (
   "Char_ID" Int references "Character"("Char_ID"),
   "Skill_ID" Int references "Skills"("Skill_ID")
);
```

Table: Char_Skills

Output	pane	
Data	Output	Explain
	Char_ID integer	THE RESIDENCE AND ADDRESS.
3	1	20
4	1	21
5	1	22
6	2	6
7	3	1
8	3	2
9	3	3
10	4	17
11	6	15
12	7	10
13	8	10
14	8	11
15	8	12
16	8	5
17	9	18
18	9	19
19	9	21

Table: Specialist

A SubType of Characters that can Reside within Items and affect them

```
create table if not exists "Specialist" (
   "Spec_ID" Int references "Character"("Char_ID") primary key,
   "Specialist_type" Text,
   "Effect_cap" Int,
   "Is_Subdued" Bool
);
```

Table: Specialist

Output	pane						
Dat	a Output	Explain	Messa	ages	Histo	гу	
	Spec_ID integer	Specialis text	t_type				Subdued olean
1	6	Nerd	- 3	199	98	t	
2	9	Witch I	Docto	100		f	

Table: Item_Type

This Table Contains Base information for all item Types

```
create table if not exists "Item Type" (
  "Itemtype ID" Serial primary key,
  "Itemtype name" Text,
  "Rank" Int,
  "Base Price" Int Not Null,
  "atk mod" Int Not Null,
  "def mod" Int Not Null,
  "int mod" Int Not Null,
  "res mod" Int Not Null,
  "hit mod" Int Not Null,
  "spd mod" Int Not Null,
  "move mod" Int Not Null,
  "jump mod" Int Not Null,
  "HP mod" Int Not Null,
  "SP mod" Int Not Null,
  "Equippable" Bool Not Null,
  "EquipType" Text
```

Table: Item_Type

Output	pane															
Data	a Outpu	t Explain Messages	History													
		y Itemtype_name e text	Rank integer	Base_Price integer		def_mod integer					move_mod integer	jump_mod integer	HP_mod integer			
10	10	Crystal_Sword	25	650000	378	0	170	100	60	0	0	0	0	60	t	Sword
11	11	Spiked_Gloves	10	12500	68	0	0	0	0	68	0	0	0	0	t	Fist
12	12	Knuckle_Bomber	19	160000	212	0	0	0	-10	212	0	0	60	0	t	Fist
13	13	Trident	11	18000	80	35	0	0	12	12	0	0	0	0	t	Spear
14	14	Assassin_Bow	6	1800	24	0	0	0	24	10	0	0	0	0	t	Bow
15	15	Luminous_Bow	33	8400000	564	0	0	240	564	0	0	0	0	180	t	Bow
16	16	44_Magnum	5	1100	0	0	0	0	18	0	0	0	0	0	t	Gun
17	17	Heroic_Gun	37	36000000	0	80	0	180	730	200	0	0	200	160	t	Gun
18	18	Battle_Axe	6	1800	48	8	0	0	-12	0	0	0	0	0	t	Axe
19	19	Serial Axe	20	200000	294	30	-40	-20	-102	3.0	0	0	85	0	t	Axe

Table: Item_Real

This Table Contains Items that are Real and Exist in game

```
create table if not exists "Item_Real" (
   "Itemtype_ID" Int references "Item_Type"("Itemtype_ID"),
   "RealItem_ID" Serial primary key,
   "Equipped" Int references "Character"("Char_ID"),
   "Resident" Int references "Specialist"("Spec_ID"),
   "Rarity" Int,
   "IsInInventory" Bool,
   Constraint Resident_Equip check ("Resident"<>"Equipped")
);
```

Table: Item_Real

Dutput	pane					
Data	Output	Explain /	Messages	History		
		Realitem_II	Equipped integer	Resident integer		Isininventory boolean
8	9	8	4		12	t
9	10	9	3		37	t
10	7	10	1	9	33	t
11	4	11	1		5	t
12	8	12	2		2	t
13	6	13	2		1	t
14	3	14	8		7	t
15	23	15			1	f
16	5	16	6		13	t
17	1	17			0	t
18	11	18			44	f
19	12	19	8		1	t
20	13	20	7		2	t
21	4	21	7		4	t
	4	22	6		С	+

View: Character_Classes

This View will return all Characters, along with their Class Name, and SubClass Name, Ordered by Character Name In Reverse Alphabetical Order

```
Create view "Character_Classes" As
Select "Character"."Name", "Class"."Class_name", "SubClass"."SubClass_name"
from "Character"

Left outer join "SubClass" On

"Character"."SubClass_ID" = "SubClass"."SubClass_ID"
inner join "Class" on

"SubClass"."Class_ID" = "Class"."Class_ID"
Order By "Character"."Name" Desc;
```

View: Character_Classes

utput	pane				
Data	Output	Explain	Messages	History	e _e
Name text			Class_name text	8	SubClass_name text
1	Nat		Archer		Hunter
2	Mattie		Mage		Blue_Mage
3	Maddie		Mage	Red_Mage	
4	Jess		Thief		Bandit
5	Grumpu	S	Gunner		Hitman
6	Chris		Heavy_Kn	ight	Iron_Knight
7 Charles			Flora_Bea	Belladonna	
8 Billy			Prinny	Gen. Prinny	
9	Alan		Gunner	Desperado	

View: Equipped_Mastery_Class

This view will return all Characters with Equipped Weapons (Not Armor),
The character's Subclass name, the name of their Equipped Weapon,
That Weapon's Type, and that subclass' Weapon Mastery, Ordered By Equip Type

```
Create View "Equipped Mastery Class" As
Select "Character". "Name", "Class". "Class name", "Item Type". "Itemtype name",
"Item Type"."EquipType", "Weapon Mastery".*
From "Item Real"
inner Join "Item Type"
On "Item Real". "Itemtype ID" = "Item Type". "Itemtype ID"
inner Join "Character"
On "Item Real". "Equipped" = "Character". "Char ID"
Inner Join "Weapon Mastery"
On "Character". "SubClass ID" = "Weapon Mastery". "SubClass ID"
Inner Join "SubClass"
on "Character". "SubClass ID" = "SubClass". "SubClass ID"
Inner Join "Class"
on "SubClass"."Class ID" = "Class"."Class ID"
Where ("Item Type"."Equippable" <> false)
And ("Item Real". "Equipped" is not null)
And ("Item Type"."EquipType" <> 'Armor')
Order By "Item Type". "EquipType" ASC;
```

View: Equipped_Mastery_Class

utput	pane										Axe_Mastery text E		
Data	Output E	kplain Messages	History Fist_Mastery Sword_Mastery Spear_Mastery Bow_Mastery Gun_Mastery Axe_Mastery Staff_Mastery text text										
	Name text	Class_name text											
1	Nat	Archer	Battle_Axe	Axe	8	D	D	C	A	C	E	D	
2	Grumpus	Gunner	Serial_Axe	Axe	34	C	D	D	C	S	D	D	
3	Mattie	Mage	Knuckle_Bomber	Fist	20	D	D	D	C	C	E	A	
4	Alan	Gunner	Heroic_Gun	Gun	36	В	D	D	В	S	D	D	
5	Maddie	Mage	Trident	Spear	19	D	D	D	C	C	E	A	
6	Grumpus	Gunner	Fancy_Rod	Staff	34	C	D	D	C	S	D	D	
7	Chris	Heavy_Knight	Lazy_Sword	Sword	26	D	В	A	E	E	В	E	
8	Jess	Thief	Crystal_Sword	Sword	4	В	В	C	A	A	E	D	

View: emptyItems

This view will return the name, rarity, and price of all Items in your inventory that are not equipped to any character, And that have no residents

```
Create view "emptyItems" As
Select "Item_Type"."Itemtype_name", "Item_Type"."EquipType", "Item_Real"."Rarity",
"Item_Type"."Base_Price"
from "Item_Type", "Item_Real"
where "Item_Real"."Resident" is null
AND "Item_Real"."Equipped" is null
AND "Item_Real"."IsInInventory" = true
AND "Item_Real"."Itemtype_ID" = "Item_Type"."Itemtype_ID"
ORDER BY "Item_Type"."Base_Price" Asc;
```

View: emptyItems

Dutput	pane					- 10.5	
Dat	a Output Explai	n Messa	ges	Histor	<u></u> }		
	Itemtype_name	•	Equ			Base_Price integer	
1	Pizza	Food		2	10		
2	Pizza		Food		3	10	
3	Chicken_Blo	Food		0	600		
4	44_Magnum	Gun		24	1100		
5	Magical_Ves	Armor		0	2400		
6	Cell_Phone		Misc		0	5000	
7	Iron_Dress		Armor		3	1000000	
8	Luminous_Bo	W	Bow		22	8400000	
9	Heroic_Gun		Gur	Gun 22 3600			

Report: All Characters with No Weapons Equipped

```
Select *
 from "Character"
where "Character". "Char ID" Not in (
Select "Character". "Char ID"
From "Item Real"
inner Join "Item Type"
On "Item Real". "Itemtype ID" = "Item Type". "Itemtype ID"
inner Join "Character"
On "Item Real". "Equipped" = "Character". "Char ID"
Where ("Item Type"."Equippable" <> false)
And ("Item Real"."Equipped" is not null)
And ("Item Type"."EquipType" <> 'Armor')
Order By "Item Type". "EquipType" ASC);
```

Report: All Characters with No Weapons Equipped

utput	pane										
Data Output		Explain	Explain Messages		History						
	Char_ID integer	SubClass integer	_ID	Name text	Title text		Felony_count integer	exp integer			
1	6	40		Billy	Xbox_Player	17	2	2			

StoredProcedure

```
Create or Replace Function CalculateAtk ("Input Char ID" Int) as
$$
Declare
atk base Int :=
(Select "SubClass"."atk base"
from "Character",
inner join "SubClass"
on "Character". "SubClass ID" = "SubClass". "SubClass ID" Input Char ID
Where "Character". "Char ID" = "Input Char ID");
equip mod Int :=
(Select "Item Type"."atk mod"
/*Continued on the next page */
```

StoredProcedure

```
/*Continued*/
from "Character"
Inner Join "Item Real"
on "Item Real". "Equipped" = "Input Char ID"
Inner Join "Item Type"
on "Item Real". "Itemtype ID" = "Item Type". "Itemtype ID"
atk final Int :=
(Select sum(atk base, equip mod)));
Begin
return atk final;
end;
$$ Language plpgsql;
```

StoredProcedure

```
Create or Replace Function LevelUp ("Input Char ID" Int) AS $$
Declare
level := (Select "Character"."Level"
from "Character");
exp := (Select "Character"."Level"
from "Character");
Begin
if exp >= 100
then Level = Level + 1
Update "Character"."Level"
where "Character". "Char ID" = "Input Char ID";
```

Triggers

```
Create Trigger expLevel

After Insert Or Update on "Character"."exp"

For "Character"."exp"

Execute Procedure Levelup('Char_ID");
```

Security

```
Create Role Admin;

Grant All on All Tables

In Schema Public

To Admin;
```

Security

Implementation notes

Aptitudes should be Percentages, but are stored as Decimals, with 100 being 100%

Known Problems

Stored Procedure Issues, commented out in Sql;

Future enhancements

Fix all Known Problems

Configure Limits for Equips, Specialists

Create More StoredProcedures for all stats, not just ATK