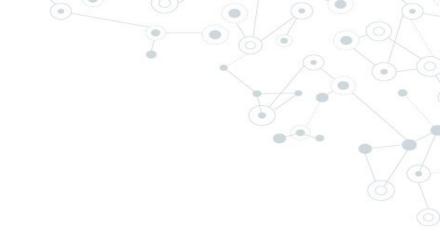


Vlka Fenryka

By: Piradon (Tien) Liengtiraphan



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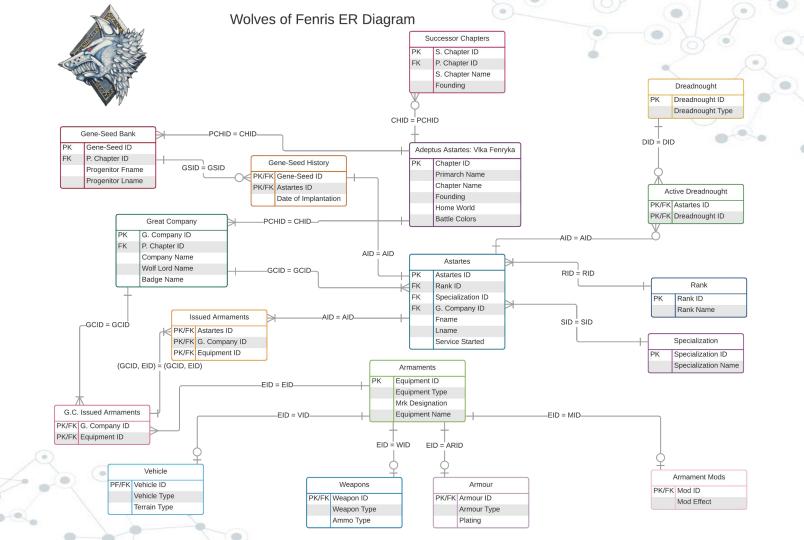


Executive Summary

"It is the 41st Millennium. For more than a hundred centuries the Emperor of Mankind has sat immobile on the Golden Throne of Earth. He is the master of mankind by the will of the gods and master of a million worlds by the might of his inexhaustible armies. He is a rotting carcass writhing invisibly with power from the Dark Age of Technology. He is the Carrion Lord of the vast Imperium of Man for whom a thousand souls are sacrificed every day so that he may never truly die. Yet even in his deathless state, the Emperor continues his eternal vigilance. Mighty battlefleets cross the daemon-infested miasma of the Warp, the only route between distant stars, their way lit by the Astronomican, the psychic manifestation of the Emperor's will. Vast armies give battle in His name on uncounted worlds. Greatest amongst his soldiers are the Adeptus Astartes, the Space Marines, bioengineered super-warriors."

The design of this database serves to illustrate how all the gaps within the existing databases of the 41st Millennium could be solved via 3rd Millennium technologies and concepts: Referential Integrity. Is includes: Chapters and their progenitor records, Gene-Seed records and assignments, Armaments assigned to each of the Great Companies, and Records for each and every Spacemarine. An overview of the database will be illustrated, followed by detailed queries and comments about the creation and purpose of the main tables and views. Lastly the different roles within the Chapter shall be detailed along with the rights they have within the system.

Further possible improvements to the database shall be listed at the end of the presentation.



Vlka Fenryka Table

The most important table linking the Vlka Fenryka Space Marine Chapter to the greater Imperium Database is the table containing the over-all information about the chapter: ID, Primarch, Chapter Name, Founding, Homeworld, and Colors

```
CREATE TABLE vlkaFenryka (
    chid SERIAL UNIQUE NOT NULL,
    primarchName TEXT NOT NULL,
    chapterName TEXT NOT NULL,
    founding INT NOT NULL,
    homeWorld TEXT NOT NULL,
    battleColors TEXT NOT NULL,
    primary key(chid)
);
```

Functional Dependencies

chid → primarchName, chaptername, founding, homeWorld, battleColors

-	chid integer		chaptername text	founding integer		battlecolors text
	1	Leman Russ	Vlka Fenryka	1	Fenris	Blue-Grey



successorChapter Table

Any successful Chapter in Warhammer 40K has successor Chapters. Successor Chapters are autonomous Chapters that originate from the source gene-seed of their progenitor. It is important keep track of these chapters in case the progenitor is in dire need for reinforcements. The Vlka Fenryka as proud as they are only have one successor chapter.

```
CREATE TABLE successorChapter (
     schid
                    SERIAL UNIQUE NOT NULL,
     pchid
                    INT NOT NULL REFERENCES vlkaFenryka(chid),
     sChapterName
                    TEXT NOT NULL,
     founding INT NOT NULL,
     primary key(schid)
Functional Dependencies
```

schid → pchid, sChapterName, founding

Sampl

l	schid integer	pchid integer	THE RESIDENCE OF THE PARTY OF T	founding integer
	1	1	Wolf Brothers	2



geneseedBank Table

Nothing makes a chapter more than its astartes. But an astartes is nothing without his Gene-Seed. The gene-seed is the germ cells and viral machines that have been genetically-engineered to develop into the various organs that are implanted into a normal human adolescent male to transform him into a Space Marine, passed down from the mightiest warriors of Fenris.

```
CREATE TABLE geneseedBank (
     asid
               SERIAL UNIQUE NOT NULL,
     pchid
                    INT NOT NULL REFERENCES vlkaFenryka (chid),
     progenitorFname
                         TEXT NOT NULL,
     progenitorLname
                         TEXT NOT NULL,
     primary key(qsid)
Functional Dependencies
```

gsid → pchid, progenitorFname, progenitorLname

gsid integer	pchid integer		progenitorIname text
1	1	Itard	Aenar
2	1	Raddin	Hulgar
3	1	Bjadmund	Brandr
4	1	Valund	Brandr
5	1	Kunthjol	Haaki
6	1	Fjolfrin	Snadmu



greatCompany Table

The Vlka Fenryka consist of 13 Great Companies of varying strengths. Each Great Company is based in The Fang, the Space Wolves Fortress-monastery and is led by a Wolf Lord, who answers only to the Great Wolf. Each Great Company is a fully self-contained army, with all the troops, vehicles and equipment necessary to make war, as well as the spacecraft necessary to transport itself.

Functional Dependencies

gcid → pchid, companyName, wolfLordName, badgeName

		wolflordname text	badgename text
1 Company of the Great Wolf		Logan Grimnar	Wolf that Stalks the Stars
1	Bloodmaws	Bran Redmaw	Bloodied Hunter
1	Seawolves	Engir Krakendoom	Sea Wolf
1	Sons of Morkai	Erik Morkai	Morkai
1	Red Moons	Gunnar Red Moon	Wolf of the Red Moon
1	Deathwolves	Harald Deathwolf	Great Devourer
1	Stormwolves	Bjorn Stormwolf	Thunderwolf
	1 1 1 1 1 1	integer text	Integer text



astartes Table

The Space Marines or Adeptus Astartes are foremost amongst the defenders of humanity, the greatest of the Emperor of Mankind's warriors. Within each of them is a Gene-Seed, which grants the all the abilities of their progenitors and records their own for future generations

```
CREATE TABLE astartes (
     aid
               SERIAL UNIQUE NOT NULL,
     rid
               INT NOT NULL REFERENCES rank (rid),
     sid
               INT NOT NULL REFERENCES specialization (sid),
     gcid
               INT NOT NULL REFERENCES greatCompany(gcid),
     fName
               TEXT NOT NULL,
     lName
               TEXT NOT NULL,
     serviceStart
                    TEXT NOT NULL,
     primary key(aid)
```

Functional Dependencies

aid → rid, sid, gcid, fName, lName, serviceStart

	aid integer	rid integer	sid integer	gcid integer	fname text	Iname text	servicestart text
	1	1	2	1	Logan	Grimnar	766 781.M35
9	2	2	1	2	Bran	Redmaw	099 158.M33
	3	2	2	3	Engir	Krakendoom	325 969.M40
	4	2	3	4	Erik	Morkai	707 242.M35
	5	2	4	5	Gunnar	Red Moon	234 195.M38
	6	2	5	6	Harald	Deathwolf	481 760.M39
	7	2	6	7	Bjorn	Stormwolf	727 484.M32



dreadnought Table

When the greatest of the Astartes are crippled in combat the Battle-Brother's body will be repaired and transferred into an armoured cybernetic sarcophagus outfitted with extensive life support systems. This sarcophagus is then interred within the heart of the armoured body of a Dreadnought if there is even a spark of life left. These legends are kept alive to serve the Imperium once more. "Even in death I still serve".

```
CREATE TABLE dreadnought (

did SERIAL UNIQUE NOT NULL,

dreadType TEXT NOT NULL,

primary key(did)
);

Functional Dependencies

did → dreadType
```

-	did integer	dreadtype text
	1	Venerable
	2	Siege
	3	Ironclad
	4	Hellfire
	5	Contemptor
	6	Deredeo
	7	Librarian
	8	Chaplain
	9	Leviathan



armaments Table

Space Marines are mankind's greatest weapons, but to these superhumans even deadlier weapons must be issued for them to be able to complete their mission. The best armour must be given so that they may stand in the face of overwhelming odds. Vehicles must be available to them so that they may go where they are needed most.

Functional Dependencies

eid → type, mrkDesignation, eName

eid integer	type text	mrkdesignation character(12)	ename text
1	Weapon	VB	Godwyn Pattern Bolter
2	Weapon	IV	Ultra Pattern Bolter
3	Weapon	I	Lighting Claws
4	Weapon	I	Force Sword
5	Weapon	I	Doom Hammer
6	Weapon	Xf	Krakentooth Pattern Chainsword
7	Armour	I	Thunder Pattern Power Armour
8	Armour	II	Crusade Pattern Power Armour
9	Armour	III	Iron Pattern Power Armour



spacemarineInfo View

Retrieves all relevant information about a Space Marine and displays them in one easy-to-understand table. (7 tables involved)

```
CREATE OR REPLACE VIEW spacemarineInfo AS
SELECT
           a.aid.
     a.fname,
     a.lname,
     vf.chaptername,
     vf.primarchname,
     a.servicestart,
     gsb.gsid,
     gsh.dateofimplant,
     gc.companyname,
     s.specialization,
     vf.battlecolors
FROM astartes a
INNER JOIN geneseedHistory gsh
     ON a.aid = qsh.aid
INNER JOIN geneseedBank gsb
     ON qsh.qsid = qsb.qsid
```

```
INNER JOIN greatCompany gc
ON gc.gcid = a.gcid
INNER JOIN rank r
ON a.rid = r.rid
INNER JOIN specialization s
ON a.sid = s.sid
INNER JOIN vlkaFenryka vf
ON gsb.pchid = vf.chid;
```



spacemarineInfo View - Results

aid integer	fname text	Iname text	chaptername text	primarchname text	servicestart text	gsid integer		companyname text	specialization text	battlecolors text
1	Logan	Grimnar	Vlka Fenryka	Leman Russ	766 781.M35	30	643 830.M33	Company of the Great Wolf	Assault	Blue-Grey
2	Bran	Redmaw	Vlka Fenryka	Leman Russ	099 158.M33	1	318 077.M32	Bloodmaws	Tactical	Blue-Grey
3	Engir	Krakendoom	Vlka Fenryka	Leman Russ	325 969.M40	2	911 219.M39	Seawolves	Assault	Blue-Grey
4	Erik	Morkai	Vlka Fenryka	Leman Russ	707 242.M35	3	541 971.M34	Sons of Morkai	Terminator	Blue-Grey
5	Gunnar	Red Moon	Vlka Fenryka	Leman Russ	234 195.M38	4	012 578.M37	Red Moons	Seige Warfare	Blue-Grey
6	Harald	Deathwolf	Vlka Fenryka	Leman Russ	481 760.M39	5	569 896.M38	Deathwolves	Demolisher	Blue-Grey
7	Bjorn	Stormwolf	Vlka Fenryka	Leman Russ	727 484.M32	6	616 102.M31	Stormwolves	Calvary	Blue-Grey
8	Egil	Iron Wolf	Vlka Fenryka	Leman Russ	803 029.M40	7	161 999.M36	Ironwolves	Tactical	Blue-Grey
9	Krom	Dragongaze	Vlka Fenryka	Leman Russ	758 253.M35	8	210 645.M34	Drakeslayers	Assault	Blue-Grey
10	Ragnar	Blackmane	Vlka Fenryka	Leman Russ	838 401.M37	9	474 651.M36	Blackmanes	Assault	Blue-Grey
11	Sven	Bloodhowl	Vlka Fenryka	Leman Russ	822 786.M35	10	480 604.M34	Firehowlers	Terminator	Blue-Grey
12	Kjarl	Grimblood	Vlka Fenryka	Leman Russ	602 962.M39	11	452 065.M38	Grimbloods	Seige Warfare	Blue-Grey
13	Bulveye	Axeman of Russ	Vlka Fenryka	Leman Russ	313 169.M30	12	672 532.M29	Wulfen	Demolisher	Blue-Grey
14	Bjorn	Fell-Handed	Vlka Fenryka	Leman Russ	359 417.M31	13	519 441.M30	Company of the Great Wolf	Assault	Blue-Grey
15	Kverlaf	Murderfang	Vlka Fenryka	Leman Russ	273 678.M34	14	966 203.M33	Company of the Great Wolf	Assault	Blue-Grey



dreadnoughtInfo View

Retrieves all relevant information about a Dreadnought and displays them in one easy-to-understand table. (4 tables involved)

```
CREATE OR REPLACE VIEW dreadnoughtInfo AS
SELECT
           a.aid,
     a.fname,
     a.lname,
     d.dreadtype,
     a.servicestart,
     ad.internmentdate,
     gc.companyname
FROM astartes a
INNER JOIN activeDreadnought ad
     ON a.aid = ad.aid
INNER JOIN dreadnought d
     ON ad.did = d.did
INNER JOIN greatCompany gc
     ON gc.gcid = a.gcid;
```

aid integer	fname text	Iname text			internmentdate text		companyname text					
14	Bjorn	Fell-Handed	Venerable	359	417.M31	130	620.M33	Company	of	the	Great	Wolf
15	Kverlaf	Murderfang	Ironclad	273	678.M34	839	269.M35	Company	of	the	Great	Wolf



spacemarineEquipment View

Filters through armaments and its subtypes, astartes, gcIssuedArmaments, and issuedArmaments to retrieve all equipment assigned to a Space Marine. (Links together 3 other views to hide complexity)

```
CREATE OR REPLACE VIEW spacemarineEquipment AS
                                                       UNTON
SELECT
           aid,
                                                       SELECT
                                                                  aid,
     fname,
                                                             fname,
     lname,
                                                            lname,
     eid,
                                                             eid,
     mrkdesignation,
                                                            mrkdesignation,
     ename
                                                            ename
FROM spacemarineWeapons
                                                       FROM spacemarineMods;
UNTON
SELECT
           aid,
     fname,
     lname,
     eid,
     mrkdesignation,
     ename
FROM spacemarineArmour
```



spacemarine Equipment View - Results

aid integer	fname text	Iname text	eid integer	mrkdesignation character(12)	ename text
13	Bulveye	Axeman of Russ	30	X	Iron Halo
1	Logan	Grimnar	33	III	Teleporter
8	Egil	Iron Wolf	30	X	Iron Halo
10	Ragnar	Blackmane	4	I	Force Sword
10	Ragnar	Blackmane	18	IV	Tartaros Pattern Tactical Dreadnought Armour
11	Sven	Bloodhowl	14	VIII	Errant Pattern Power Armour
4	Erik	Morkai	31	VI	Machine Spirit Core
5	Gunnar	Red Moon	4	I	Force Sword
7	Bjorn	Stormwolf	1	VB	Godwyn Pattern Bolter
5	Gunnar	Red Moon	9	III	Iron Pattern Power Armour
11	Sven	Bloodhowl	1	VB	Godwyn Pattern Bolter
7	Bjorn	Stormwolf	3	I	Lighting Claws
12	Kjarl	Grimblood	3	I	Lighting Claws
2	Bran	Redmaw	10	IV	Maximus Pattern Power Armour
3	Engir	Krakendoom	2	IV	Ultra Pattern Bolter
1	Logan	Grimnar	19	V	Aegis Terminator Armour
4	Erik	Morkai	28	I	Night Vision
8	Egil	Iron Wolf	5	I	Doom Hammer
2	Bran	Redmaw	30	X	Iron Halo
4	Erik	Morkai	30	X	Iron Halo
7	Bjorn	Stormwolf	19	V	Aegis Terminator Armour
4	Erik	Morkai	16	II	Indomitus Pattern Tactical Dreadnought Armour



Create View Statements - Three Views for spacemarineEquipment

```
CREATE OR REPLACE VIEW
spacemarineMods AS
SELECT
          a.aid,
     a.fname,
     a.lname,
     mi.eid,
     mi.mrkdesignation,
     mi.ename,
     mi.meffect
FROM astartes a
INNER JOIN issuedArmaments
iа
     ON a.aid = ia.aid
INNER JOIN modInfo mi
     ON ia.eid = mi.eid;
```

```
CREATE OR REPLACE VIEW
spacemarineArmour AS
SELECT
         a.aid,
     a.fname,
     a.lname,
     ar.eid,
     ar.mrkdesignation,
     ar.ename,
     ar.atype,
     ar.plating
FROM astartes a
INNER JOIN issuedArmaments
iа
     ON a.aid = ia.aid
INNER JOIN armourInfo ar
```

ON ia.eid = ar.eid;

```
CREATE OR REPLACE VIEW
spacemarineWeapons AS
SELECT
           a.aid,
     a.fname,
     a.lname,
     wi.eid,
     wi.mrkdesignation,
     wi.ename,
     wi.wtype,
     wi.ammo
FROM astartes a
INNER JOIN issuedArmaments
iа
     ON a.aid = ia.aid
INNER JOIN weaponInfo wi
     ON ia.eid = wi.eid;
```

greatCompanyIssued View

Filters through armaments and its subtypes, and gcIssuedArmaments, to retrieve all equipment assigned to a Great Company.

```
CREATE OR REPLACE VIEW greatCompanyIssued AS
SELECT
           gcid,
     eid,
     mrkdesignation,
     ename
FROM greatCompanyIssuedArmour
UNTON
           gcid,
SELECT
     eid,
     mrkdesignation,
     ename
FROM greatCompanyIssuedWeapons
UNTON
           gcid,
SELECT
     eid,
     mrkdesignation,
     ename
FROM greatCompanyIssuedMods;
```



greatCompanyIssued View - Results

gcid eid mrkdesignation integer integer character(12)			ename text					
6	33	III	Teleporter					
11	30	X	Iron Halo					
1	32	IX	Stealth Drive					
5	2	IV	Ultra Pattern Bolter					
10	32	IX	Stealth Drive					
11	13	VII	Aquila Pattern Power Armour					
2	33	III	Teleporter					
8	29	V	Stormwind Pattern Jetpack					
8	13	VII	Aquila Pattern Power Armour					
2	2	IV	Ultra Pattern Bolter					
9	19	v	Aegis Terminator Armour					
3	4	I	Force Sword					
9	11	v	Heresy Pattern Power Armour					
10	31	VI	Machine Spirit Core					
3	14	VIII	Errant Pattern Power Armour					
13	11	v	Heresy Pattern Power Armour					
1	31	VI	Machine Spirit Core					
12	28	I	Night Vision					
8	30	X	Iron Halo					
5	33	III	Teleporter					
4	12	VI	Corcus Pattern Power Armour					
1	28	I	Night Vision					



Create View Statements - Three Views for greatCompanyIssued

```
CREATE OR REPLACE VIEW
greatCompanyIssuedWeapons
AS
SELECT
          gca.gcid,
     qca.eid,
     wi.mrkdesignation,
     wi.ename,
     wi.wtype,
     wi.ammo
FROM gcArmaments gca
INNER JOIN weaponInfo wi
     ON gca.eid = wi.eid;
```

```
CREATE OR REPLACE VIEW
   greatCompanyIssuedArmour
   AS
   SELECT
             qca.qcid,
        qca.eid,
        ar.mrkdesignation,
        ar.ename,
        ar.atype,
        ar.plating
   FROM qcArmaments qca
  INNER JOIN armourInfo ar
ON gca.eid = ar.eid;
```

```
CREATE OR REPLACE VIEW
greatCompanyIssuedMods AS
SELECT gca.gcid,
gca.eid,
mi.mrkdesignation,
mi.ename,
mi.meffect
FROM gcArmaments gca
INNER JOIN modInfo mi
ON gca.eid = mi.eid;
```

*Each of These Statements Break into smaller views.



Stored Procedures - Get Space Marine Information by Name

getSPInfoByName Procedure

There will be times when the Chapter Master wishes to look up a Space Marine's records but doesn't know his Astartes ID, the Chapter Master or Scribe could then use this function to retrieve a Marine's Records via the name he's called by. With this function the Chapter Master or Scribe need not write a query but simply pass values that they know into this function

```
CREATE OR REPLACE FUNCTION getSPInfoByName (TEXT, TEXT, REFCURSOR) RETURNS refcursor AS
$$
DECLARE
     spFname
                     TEXT
                                 := $1;
                     TEXT
                                 := $2;
     spLname
     resultset REFCURSOR := $3;
BEGIN
   OPEN resultset FOR
      SELECT
        FROM
                spacemarineInfo
                fname LIKE spFname
       WHERE
         AND
                lname LIKE spLname;
   return resultset;
end;
LANGUAGE plpgsql;
```



Stored Procedures - Get Space Marine Information by Name

getSPInfoByName Procedure - Results

```
SELECT getSPInfoByName('%', 'Death%', 'ref');
FETCH ALL FROM ref;
```

aid integer	fname text		chaptername text	primarchname text		gsid integer		companyname text	TO STATE OF THE PARTY OF THE PA	specialization text	battlecolors text
6	Harald	Deathwolf	Vlka Fenryka	Leman Russ	481 760.M39	5	569 896.M38	Deathwolves	Wolf Lord	Demolisher	Blue-Grey

```
SELECT getSPInfoByName('E%', 'K%', 'ref');
FETCH ALL FROM ref;
```

aid integer	fname text	77 T T T T T T T T T T T T T T T T T T	chaptername text	primarchname text		gsid integer		companyname text	rankname text	specialization text	battlecolors text
3	Engir	Krakendoom	Vlka Fenryka	Leman Russ	325 969.M40	2	911 219.M39	Seawolves	Wolf Lord	Assault	Blue-Grey



Stored Procedures - Get Space Marine Information by Name

getSPEquipByName Procedure

LANGUAGE plpasal

Each marine starts with simply a Bolter and a set of Armour. At times of promotion they are presented with another piece of equipment. A Chapter Master or Scribe might wish to present the Space Marine specified in the above stored procedure a piece of equipment they don't currently have as a sign of promotion, this stored procedure will return all the equipment a Space Marine has currently been issued.

```
CREATE OR REPLACE FUNCTION getSPEquipByName (TEXT, TEXT, REFCURSOR) RETURNS refcursor AS
$$
DECLARE
      spFname
                        TEXT
                                     := $1;
                        TEXT
                                     := $2;
      spLname
      resultset
                  REFCURSOR
                               := $3;
BEGIN
   OPEN resultset FOR
      SELECTeid,
            mrkdesignation,
            ename
                  spacemarineEquipment
        FROM
                  fname LIKE spFname
       WHERE
         ANDlname LIKE spLname;
   return resultset;
end;
```



Stored Procedures - Get Space Marine Equipment by Name

getSPEquipByName Procedure - Results

SELECT getSPEquipByName('K%', 'Dragon%', 'results');
FETCH ALL FROM results;

	mrkdesignation character(12)	ename text
5	I	Doom Hammer
2	IV	Ultra Pattern Bolter
8	II	Crusade Pattern Power Armour

SELECT getSPEquipByName('E%', 'K%', 'ref');
FETCH ALL FROM ref;

eid integer	mrkdesignation character(12)				
3	I	Lighting Claws			
30	X	Iron Halo			
28	I	Night Vision			
1	VB	Godwyn Pattern Bolter			
19	v	Aegis Terminator Armour			
31	VI	Machine Spirit Core			



Report - Get Great Company Man-At- Arms By Id

getGCNumById Procedure - Results

This function allows any administrative body and/or Chapter Master to access the current number of Men-At-Arms for any Great Company via their ID. This is useful for allocating reinforcements to said Great Company during times of war or in situations where their numbers have plummeted below acceptable levels.

```
CREATE OR REPLACE FUNCTION getGCNumById(INT, REFCURSOR) RETURNS refcursor AS
$$
DECLARE
            INT := $1;
     wacid
     resultset REFCURSOR := $2;
BEGIN
   OPEN resultset FOR
      SELECT COUNT (aid)
       FROM
               astartes
               gcid = wgcid;
      WHERE
   return resultset;
end;
$$
LANGUAGE plpgsql;
```







Trigger - Check Equipment Before Assignment

getGCEquip Trigger

Checks to see if the entered eid exists within the equipments assigned to the Great Company to which the selected Astartes belongs. Runs before inserts and updates.

```
CREATE OR REPLACE FUNCTION getGCEquip() RETURNS TRIGGER AS
$qetGCEquip$
DECLARE
                            := (SELECT eid FROM greatCompanyIssued WHERE gcid = wgcid);
      wacid
                  INT
BEGIN
      IF (weid in (SELECT eid FROM greatCompanyIssued WHERE gcid = wgcid))
            THEN UPDATE issuedArmaments SET invalid = 1;
            END IF;
end;
$getGCEquip$
LANGUAGE plpqsql;
CREATE TRIGGER getGCEquip
      BEFORE INSERT or UPDATE ON issuedArmaments
      FOR EACH ROW
      EXECUTE PROCEDURE getGCEquip();
```



Security - Adeptus Administratum & Chapter Master

adeptus_administratum Role

The Adeptus Administratum is the administrative and bureaucratic division of the Adeptus Terra, the heart of the gigantic bureaucracy that controls the government of the Imperium of Man, consisting of untold billions of clerks, scribes and administrative staff constantly working to manage the Imperium at every level, from assembling war fleets to levying taxes. It is the largest of the departments comprising the Adeptus Terra. They have access to every record available to the Imperium and can even supplant the authority of a Chapter Master, with dire consequences.

```
CREATE ROLE adeptus_administratum;
GRANT SELECT, INSERT, UPDATE, DELETE
ON ALL TABLES IN SCHEMA PUBLIC
TO adeptus_administratum;
```

chapter_master Role

To be a Chapter Master of an Imperial Space Marines Chapter is to be a superhuman avatar of war amongst mere mortals. The Chapter Masters of the Adeptus Astartes are unmatched in personal combat prowess, possessing the body of a genetically superior killing machine and literally centuries of combat experience. He is a true scion of the Emperor of Mankind, heir to the strength and fortitude possessed by his genetic forebears, the Primarchs. Hence he has access to the entire record of his chapter's history. With the title of Chapter Master comes the ability to induct new members, promote current members, and strike people from the Chapter's History in extreme cases.

CREATE ROLE chapter_master;
GRANT SELECT, INSERT, UPDATE, DELETE
ON ALL TABLES IN SCHEMA PUBLIC
TO chapter master;

Security - Chapter Scribe

chapter_scribe Role

Chapter Scribes or Librarians are the psykers of the Space Marines who survive the Adeptus Astartes Chapter's rigorous screening and training to bend the powers of the Warp to their will for the benefit of their fellow Battle-Brothers and in service to the Emperor of Mankind. Beyond their psychic duties, the Librarians of the Astartes are also expected to record the great deeds of their Chapter and maintain the Chapter's storehouse of ancient lore, the functions for which they are named.

```
CREATE ROLE chapter_scribe;
GRANT SELECT, INSERT, UPDATE
ON ALL TABLES IN SCHEMA PUBLIC
TO chapter scribe;
```

space_marine Role

Each Space Marine who joins a chapter is inducted into the brotherhood as a recruit (naming scheme varies depending on chapter) they are stripped of their previous life and live to serve the Greater Imperium and die in service to her existence. They have the ability to view their own and other Space Marine's Equipment and basic information.

```
CREATE ROLE space_marine;
GRANT SELECT
ON greatCompanyIssued
TO space_marine;
GRANT SELECT
ON spacemarineEquipment
TO space_marine;
GRANT SELECT
ON spacemarineInfo
TO space marine;
```



Implementation Notes

O Purpose

The purpose of the database is to allow the adeptus administratum to operate as it has done in the past, albeit with less loss of data regarding the each of the newly founded Space Marine Chapters, relying on Referential Integrity and Checks to keep data from going missing, and to be able to hold officers in the Administratum responsible for any missing data.

Test Data

- Test Data originated, from officially supported documents of the Black Library and the active community of the Warhammer40K wiki and WH40K.Lexicanum. If dates were unavailable they were generated to fit the WH date format using the javascript file provided in the "Documents" Folder.
- All information here does not accurately reflect the actual lore of Warhammer 40K and should in no way be used as a reference when making claims and statements.



Known Issues

- There is currently no way to check to see if a Space Marine is dead or not unless you check the Gene-Seed History. However there is no such case as-of-now and the database may react in an unpredictable manner.
- Trigger is not certain to work the way it was intended (will verify when possible). Issue for Trigger's creation currently solved via Referential Integrity.
- More Views should be created to assist with other possible use cases.



Future Enhancements

- Implement way to check is a Space Marine has completed term of service (KIA or MIA)
- Implement more checks to ensure accurate data input.
- Create linking table to greater Imperium database.
- Extends database information to include different time periods of the chapter (Great Crusade, Horus Heresy, The Scouring, The Time of Rebuilding, The Time of Ending)
- Supplement database with Adeptus Mechanicus Support as well as Human population of worlds under direct control



