SUPERHUMAN REGISTRATION ACT DATABASE

Property of the Strategic Homeland Intervention and Enforcement Logistics Division
(S.H.I.E.L.D.)

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EXECUTIVE SUMMARY

OVERVIEW

Since the 1940s the United States government and the world at large has been aware of beings known as 'Super humans' or Metas. Seventy-five years later, the world has been ravaged by these Metas who have done nothing but put the lives of average men and women in danger as they continue unchecked and unbeholden to any man, nation, or creed but their own.

In 2007 a group of Metas calling themselves 'The New Warriors' were in the middle of broadcasting a reality television show in which they hunted down other Metas. There was an altercation when a Meta calling himself Nitro let loose a 3kiloton nuclear blast that leveled Stamford, CT. The resulting political and social backlash on the Metas was unprecedented and after a 'Civil War' between two conflicting factions of Metas, the surviving members agreed to be submitted to an act of Congress: The Super Human Registration Act.

The Strategic Homeland Intervention Enforcement and Logistics Division (S.H.I.E.L.D.) was commissioned to develop, house, and manage a database for the consolidation of all information gathered pertaining to the Metahumans.

OBJECTIVES

S.H.I.E.L.D commissioned this Database to monitor, study, and deploy registered and unregistered Metas. This database is top secret and therefore only the highest clearance of S.H.I.E.L.D agent will be allowed access. This is because of the sensitive information contained in the database such as the secret identities of several hundred Meta humans and their constantly updated locations.

This document will be a guiding document for different applications available in the database to access the information. It will also include technical specifications as to access to different aspects of the database such as permissions, adding new Metas that S.H.I.E.L.D has tracked or have registered with the Superhuman Registration Act (SHRA).
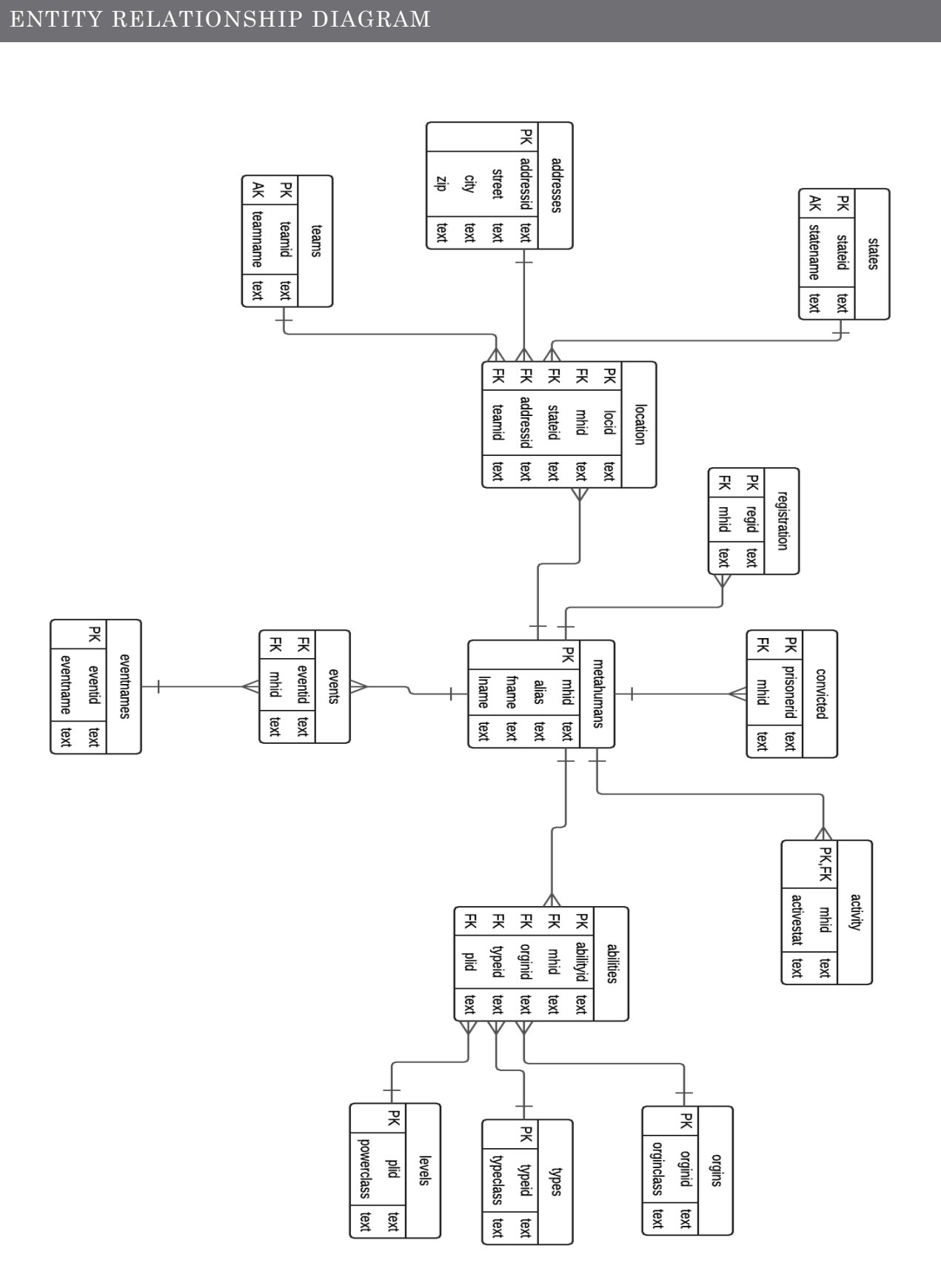
METAHUMANS

PURPOSE

The main table of the Database, housing the alias, real first and last name, and MetaHuman Identification number of each Meta.

FROM THE DESK OF DIRECTOR FURY: The MHID should not be confused with the Registration ID that is designated based on the SHRA. That is a number used for the Registration Database used by the U.S. Government, while the MHID is a number that has been used in S.H.I.E.L.D reports for decades.

CREATE STATEMENT

CREATE TABLE METAHUMANS(

      MHID TEXT,

      alias   TEXT,

      fName TEXT,

      lName TEXT,

      PRIMARY KEY (MHID)

);

FUNCTIONAL DEPENDECIES

MHID → Alias, fName, lName

SAMPLE DATA

mhid text	alias text	fname text	lname text
EL67O1	Captain ...	Steven	Rogers
RK50N5	Iron Man	Anthony	Stark
QB75Q3	Hulk, The	Bruce	Banner
HK72U4	Thing, The	Benjamin	Grimm
YZ94L4	Patriot	Eli	Bradley
YW46P5	Sister Gri...	Nico	Minoru
IZ27J0	Mister Fa...	Reed	Richards
ZP84Q6	Nova	Richard	Rider
UC99L9	Beast	Hank	McCoy
UR31O5	Giant Man	Hank	Pym
LL12G7	Ant-Man	Scott	Lang
OV70X3	Ant-Man	Hank	Pym
YC26T9	Yellowjac...	Hank	Pym
KA67G7	Bullseye	Lester	UNKOWN

TYPES

PURPOSE

This table of the database monitors the Type of Ability owned by a Meta {Mind Control, Super Strength, etc.}

CREATE STATEMENT

CREATE TABLE TYPES(

       TypeID TEXT,

       TypeClass TEXT NOT NULL,

       PRIMARY KEY (TypeID)

);

FUNCTIONAL DEPENDECIES

TypeID → TypeClass

SAMPLE DATA

typeid text	typeclass text
AL73X7	Peak Physical Condition
ZD72B3	Advance Mechanical Armor
BA16S4	Gamma Mutate
EC12Z6	Rock-Based Natural Armor
AT51N1	Magical Artifact
LZ82A5	Animal-like Physiology
KZ39E8	Size Manipulation
WI20T1	Nova Force
OV17Z8	Elasticity
RB95L5	Master Marksman

ORIGINS

PURPOSE

This table of the database monitors the Origin of Ability owned by a {Tech, Mutant, Inhuman, Bio-Advancement, etc.}

CREATE STATEMENT

CREATE TABLE ORIGINS (

OriginID TEXT,

OriginClass TEXT NOT NULL,

PRIMARY KEY (OriginID)

);

FUNCTIONAL DEPENDECIES

OriginID → OriginClass

SAMPLE DATA

originid text	originclass text
MX73W1	Super Soldier Serum
RP41W1	Technological Innovation
SS67W3	Radiation Accident
NS30H6	Cosmic Rays
WP23U0	Legacy
YJ49O4	Pym Particles
TX25O9	Human Mutate
LF44D2	Intergalatic Police Force
GW25U6	Intense Physical Training

PURPOSE

This table of the database designates power levels of metas ranging from the most powerful Omega class, down to Gamma class.

CREATE STATEMENT

CREATE TABLE LEVELS(

       PLID TEXT,

       PowerClass TEXT NOT NULL,

       PRIMARY KEY (PLID)

);

FUNCTIONAL DEPENDECIES

PLID → PowerClass

SAMPLE DATA

plid text	powercl... text
TW31J8	Omega
VV51H8	Alpha
BZ54I1	Beta
AM41K2	Delta
FF37F0	Gamma

ABILITIES

PURPOSE

The table is used to consolidate all ability information about a Meta: Ability, Origin of Power, and Power Level Classification. This is used for the tracking of Meta's abilities and their frequency.

Create Statement

CREATE TABLE LEVELS(
　　　　AbilityID TEXT,
　　　　MHID TEXT REFERENCES METAHUMANS (MHID),
　　　　OriginID TEXT REFERENCES ORIGINS (OriginID),
　　　　TypeID TEXT REFERENCES TYPES (TypeID),
　　　　PLID TEXT REFERENCES LEVELS (PLID),
　　　　PRIMARY KEY (AbilityID)
);

FUNCTIONAL DEPENDECIES

AbilityID → MHID, OriginID, TypeID, PLID

SAMPLE DATA

abilityid text	mhid text	originid text	typeid text	plid text
CM77S8	EL67O1	MX73W1	AL73X7	VV51H8
HP82T9	RK50N5	RP41W1	ZD72B3	VV51H8
EN58A5	QB75Q3	SS67W3	BA16S4	VV51H8
ZQ76N8	HK72U4	NS30H6	EC12Z6	BZ54I1
KM11U7	YZ94L4	WP23U0	AL73X7	AM41K2
MV17Y3	YW46P5	WP23U0	AT51N1	BZ54I1
ZX48E7	IZ27J0	NS30H6	OV17Z8	VV51H8
UI99Y0	ZP84Q6	LF44D2	WI20T1	VV51H8
AA27O8	UC99L9	TX25O9	LZ82A5	BZ54I1
AC25X3	UR31O5	YJ49O4	KZ39E8	BZ54I1
BV49B4	LL12G7	YJ49O4	KZ39E8	BZ54I1
QQ61J7	OV70X3	YJ49O4	KZ39E8	BZ54I1
KT81P4	YC26T9	YJ49O4	KZ39E8	BZ54I1
XH11A4	KA67G7	GW25U6	RB95L5	FF37F0

PURPOSE

        The table is used to monitor activity of Metas {Inactive, Active, Retired, Deceased, Missing}

NOTE: *This table uses an enumerated data-type 'actstat' which takes the afore-stated inputs.*

CREATE STATEMENT

CREATE TABLE ACTIVITY(

    MHID TEXT REFERENCES METAHUMANS (MHID),

    ActiveStat actstat,

    PRIMARY KEY (MHID)

);

FUNCTIONAL DEPENDECIES

MHID → ActiveStat

SAMPLE DATA

mhid text	activestat actstat
EL67O1	Active
RK50N5	Active
QB75Q3	Missing
HK72U4	Active
YZ94L4	Deceased
YW46P5	Deceased
IZ27J0	Inactive
ZP84Q6	Deceased
UC99L9	Active
UR31O5	Inactive
LL12G7	Deceased
KA67G7	Active

REGISTRATION

PURPOSE

The registration identification number of all registered Metas. Registered Metas can be farmed out to other agencies and commissioned to the Initiative.

CREATE STATEMENT

CREATE TABLE REGISTRATION (

RegID TEXT,

MHID TEXT REFERENCES METAHUMANS(MHID),

PRIMARY KEY (RegID)

);

FUNCTIONAL DEPENDECIES

RegID → MHID

SAMPLE DATA

regid text	mhid text
DN14D7	RK50N5
KT48N2	IZ27J0
SM22Z6	UR31O5
NE89G7	KA67G7

STATES

PURPOSE

The table is used to identify the State of Operations that the Meta is currently residing in.

CREATE STATEMENT

CREATE TABLE STATES(

        StateID TEXT,

        StateName TEXT NOT NULL UNIQUE,

        PRIMARY KEY (StateID)

);

FUNCTIONAL DEPENDECIES

StateID → StateName

SAMPLE DATA

stateid text	statena… text
AL	Alabama
AK	Alaska
AZ	Arizona
AR	Arkansas
CA	California
CO	Colorado
CT	Connecti…
DE	Delaware
DC	District of…
FL	Florida
GA	Georgia

ADDRESSES

PURPOSE

The table is used to identify the home address of any meta that is either being tracked by S.H.I.E.L.D or is registered with the SHRA

CREATE STATEMENT

CREATE TABLE ADDRESSES(

  AddressID TEXT,

  Street TEXT ,

  City TEXT NOT NULL,

  Zip TEXT,

  PRIMARY KEY (AddressID)

);

FUNCTIONAL DEPENDECIES

AddressID → Street, City, Zip

SAMPLE DATA

addressid text	street text	city text	zip text
JA73J3	123 Main...	New York	10001
ER59D1	404 S Blvd	Chicago	60290
MH18I7	1270 Ho...	New York	10001
DN14D7	261 6th St.	New York	10002
ZM55R6	100 Holly...	Los Ange...	33019
AS71D8	4521 Gu...	Austin	73301

TEAMS

PURPOSE

The table is used to identify Meta-Team membership. This is also necessary for the Fifty-State-Initative and designating full teams of six Metas for each state.

CREATE STATEMENT

CREATE TABLE TEAMS(

        TeamID TEXT,

        TeamName TEXT NOT NULL UNIQUE,

        PRIMARY KEY (TeamID)

);

FUNCTIONAL DEPENDECIES

TeamID → TeamName

SAMPLE DATA

teamid text	teamname text
HL24X0	Avengers
KP42C5	Defenders
OS85X5	Fantastic Four
OM65X6	Great Lake Avengers
JY58F0	West Coast Avengers
YQ89Q0	Young Avengers
FS38V4	Nova Corps
SM22Z6	Runaways
SS38K0	S.H.I.E.L.D.
HX79R3	Thunderbolts

LOCATION

PURPOSE

The table is used to consolidate all location information about a Meta: State of Operation, Home Adress, and Team Membership. This is used for the physical tracking of Metas wherever applicable.

CREATE STATEMENT

CREATE TABLE LOCATION (

    LocID TEXT,

    MHID TEXT REFERENCES METAHUMANS(MHID) NOT NULL,

    StateID TEXT REFERENCES STATES(StateID) NOT NULL,

    AddressID TEXT REFERENCES ADDRESSES(AddressID),

    TeamID TEXT REFERENCES TEAMS(TeamID),

    PRIMARY KEY (LocID)

);

FUNCTIONAL DEPENDECIES

LocID → MHID, StateID, AddressID, TeamID

SAMPLE DATA

locid text	mhid text	stateid text	addressid text	teamid text
ZD23H5	EL67O1	NY	JA73J3	HL24X0
TW14M1	RK50N5	NY	JA73J3	HL24X0
BS18E3	QB75Q3	NY	JA73J3	KP42C5
YZ20J0	HK72U4	NY	MH18I7	OS85X5
KQ76M2	YZ94L4	NY	DN14D7	YQ89Q0
KT48N2	YW46P5	CA	ZM55R6	SM22Z6
KA67G7	IZ27J0	NY	MH18I7	OS85X5
RB95L5	ZP84Q6	NY	JA73J3	FS38V4
JC51P7	KA67G7	CA		HX79R3

EVENTNAMES

PURPOSE

The table is used to catalog universe wide events to better understand and collect information about them.

CREATE STATEMENT

CREATE TABLE EVENTNAMES (

EventId TEXT REFERENCES EVENTNAMES(EventId),

EventName TEXT NOT NULL,

PRIMARY KEY (EventID)

);

FUNCTIONAL DEPENDECIES

EventID → EventName

SAMPLE DATA

	eventid text	eventname text
	AF85F1	Civil War
	NS30H6	House of M
	IE98H4	World War Hulk

EVENTS

PURPOSE

The table is used to connect universe wide events that have occurred to check for correlations between them.

FROM THE DESK OF DIRECTOR FURY: When in doubt, look for a Maximoff. They are always behind something screwy going on.

CREATE STATEMENT

CREATE TABLE EVENTS (

        EventId TEXT REFERENCES EVENTNAMES(EventId),

        MHID TEXT REFERENCES METAHUMANS(MHID)

);

FUNCTIONAL DEPENDECIES

EventID,MHID →

SAMPLE DATA

eventid text	mhid text
AF85F1	EL67O1
AF85F1	RK50N5
AF85F1	HK72U4
IE98H4	QB75Q3

CONVICTED

PURPOSE

The table is used to catalog Metas with criminal records and keep track of Metas involved in the Thurderbolt program or who must be brought in for questioning.

CREATE STATEMENT

CREATE TABLE CONVICTED (

PrisonerID TEXT ,

MHID TEXT REFERENCES METAHUMANS(MHID),

PRIMARY KEY (PrisonerID)

);

FUNCTIONAL DEPENDECIES

PrisonerID → MHID

SAMPLE DATA

prisonerid text	mhid text
JZ97G4	KA67G7

ACCESSMETADATA

PURPOSE

The most basic function of the SHRA-DB is to gather rudimentary information on Metas such as their Alias, their powers, and there real name. Instead of requiring an unwieldy query every time this simple information is required, the database houses a view called "AccessMetaData" which when Selected gives all this information

CREATE STATEMENT

CREATE VIEW AccessMetaData AS

SELECT m.mhid, m.alias, m.fname, m.lname, t.typeclass, o.originclass, l.powerclass

FROM METAHUMANS m

      INNER JOIN ABILITIES a ON m.MHID = a.MHID

      INNER JOIN TYPES t ON a.typeId = t.typeId

      INNER JOIN ORIGINS o ON a.originId = o.originId

      INNER JOIN LEVELS l ON a.plid = l.plid

ORDER BY MHID ASC;

SAMPLE DATA

	mhid text	alias text	fname text	lname text	typeclass text	originclass text	powercl... text
☐	EL67O1	Captain ...	Steven	Rogers	Peak Phy...	Super So...	Alpha
☐	HK72U4	Thing, The	Benjamin	Grimm	Rock-Bas...	Cosmic R...	Beta
☐	IZ27J0	Mister Fa...	Reed	Richards	Elasticity	Cosmic R...	Alpha
☐	KA67G7	Bullseye	Lester	UNKOWN	Master M...	Intense ...	Gamma
☐	LL12G7	Ant-Man	Scott	Lang	Size Mani...	Pym Parti...	Beta
☐	OV70X3	Ant-Man	Hank	Pym	Size Mani...	Pym Parti...	Beta
☐	QB75Q3	Hulk, The	Bruce	Banner	Gamma ...	Radiation...	Alpha
☐	RK50N5	Iron Man	Anthony	Stark	Advance ...	Technolo...	Alpha
☐	UC99L9	Beast	Hank	McCoy	Animal-lik...	Human M...	Beta
☐	UR31O5	Giant Man	Hank	Pym	Size Mani...	Pym Parti...	Beta
☐	YC26T9	Yellowjac...	Hank	Pym	Size Mani...	Pym Parti...	Beta
☐	YW46P5	Sister Gri...	Nico	Minoru	Magical A...	Legacy	Beta
☐	YZ94L4	Patriot	Eli	Bradley	Peak Phy...	Legacy	Delta
☐	ZP84Q6	Nova	Richard	Rider	Nova Force	Intergala...	Alpha

POWERINVENTORY

PURPOSE

To further catalog the Meta population, the database also keeps a real-time count of the number of active Metas with any given ability and how they received their ability. There are no names attached to this view, as it is simply designed for census purposes, gauging the frequency of given abilities currently active. This can be combined with the LocateMetaAbility() function to search for specific individuals based on their powerset.

CREATE STATEMENT

CREATE VIEW PowerInventory AS

SELECT COUNT(t.typeID), t.typeclass, o.originclass

FROM ABILITIES a

      INNER JOIN TYPES t ON a.typeId = t.typeId

      INNER JOIN ORIGINS o ON a.originId = o.originId

      INNER JOIN ACTIVITY ac ON a.MHID = ac.MHID

WHERE ac.activestat = 'Active'

GROUP BY t.typeclass, o.originclass;

SAMPLE DATA

	count bigint	typeclass text	originclass text
	1	Advance Mechanical Armor	Technological Innovation
	1	Animal-like Physiology	Human Mutate
	1	Master Marksman	Intense Physical Training
	1	Peak Physical Condition	Super Soldier Serum
	1	Rock-Based Natural Armor	Cosmic Rays

CONVICTCATALOG

PURPOSE

There are several Metas in the world who have checkered pasts, but there are an even greater number who refuse to use their abilities for the common good. As part of S.H.I.E.L.D's mission, we attempt to rehabilitate these Metas when we can, and lock them up when we can't. A useful view to have, in this vein, is to be able to track any Metas who have criminal records and are taking part in our Thunderbolt program.

The Thunderbolts are troubled Metas who we have extended the option for them to work on the side of the law in exchange for a commuted prison sentence. To be eligible for the Thunderbolt Program, the Meta must have a Criminal Record (shown by a PrisonerID) and Registered with the SHRA (shown by a RegID)

CREATE STATEMENT

CREATE VIEW ConvictCatalog AS

SELECT m.mhid,m.alias

From METAHUMANS m

      INNER JOIN REGISTRATION r ON m.MHID = r.MHID

      INNER JOIN CONVICTED cr ON m.MHID = cr.MHID

      INNER JOIN LOCATION l ON m.MHID = l.MHID

      INNER JOIN TEAMS t ON l.teamid = t.teamid

ORDER BY MHID ASC;

SAMPLE DATA

mhid text	alias text
KA67G7	Bullseye

META-CITY POPULATION

PURPOSE

S.H.I.E.L.D's mission is to monitor and control the proliferation of Weapons of Mass Destruction across the globe and one such group of weapons is the Meta community. As such, the SHRA-DB can be used to keep track of the number of Metas in Cities across the nation.

CREATE STATEMENT

SELECT COUNT(l.MHID) AS "Population", a.City, st.StateName

FROM LOCATION l

      INNER JOIN ADDRESSES a ON l.addressID = a.addressID

      INNER JOIN STATES st ON l.StateID = st.StateID

GROUP BY a.City, st.StateName

SAMPLE DATA

Population bigint	city text	statena... text
1	Los Angeles	California
7	New York	New York

FIND EVENTS

PURPOSE

When a universal or worldwide event takes place, it is S.H.I.E.L.D.'s responsibility to act as both Earth's first line of Defense and its Janitors. As such, it is important for S.H.I.E.L.D to keep track of all major events that happen in the universe and catalog those metas that were involved.

CREATE STATEMENT

SELECT m.alias, en.eventName

FROM METAHUMANS m

      INNER JOIN EVENTS ev on m.MHID = ev.MHID

   INNER JOIN EVENTNAMES en on ev.EventID = en.EventID

ORDER BY eventName ASC;

SAMPLE DATA

alias text	eventname text
Captain America	Civil War
Iron Man	Civil War
Thing, The	Civil War
Hulk, The	World War Hulk

PURPOSE

Metas are a relatively new species in the grand scheme of scientific discovery, and as such we have very limited information on what powers become the most powerful versus others. The SHRA-DB allows us to track those powers and compare them to the power levels our experts have assigned to the Metas. This allows us to further study the meta-volution.

CREATE STATEMENT

SELECT DISTINCT t.typeclass, l.PowerClass

FROM abilities a

      INNER JOIN TYPES t ON a.typeId = t.typeId

   INNER JOIN LEVELS l ON a.PLID = l.PLID

ORDER BY l.powerclass,t.typeclass ASC;

SAMPLE DATA

typeclass text	powercl... text
Advance Mechanical Armor	Alpha
Elasticity	Alpha
Gamma Mutate	Alpha
Nova Force	Alpha
Peak Physical Condition	Alpha
Animal-like Physiology	Beta
Magical Artifact	Beta
Rock-Based Natural Armor	Beta
Size Manipulation	Beta
Peak Physical Condition	Delta
Master Marksman	Gamma

LOCATEMETAORIGIN()

PURPOSE

The ability to research a Metahumans origin is an incredibly useful tool. Being able to catalog how many Human Mutate (Mutants) are registered versus how many Super Soldiers. The Function takes the parameter of one of Meta origins and returns the name of the Alias of the Meta and their ability.

CREATE STATEMENT

CREATE OR REPLACE FUNCTION locateMetaorigin (ans text)

Returns Table ("Alias" text, "State" text, "Ability" text) AS $$

BEGIN

Return QUERY

Select m.alias , st.stateName, t.typeclass

From metahumans m

    INNER JOIN abilities a ON m.MHID = a.MHID

    INNER JOIN types t ON a.typeId = t.typeId

    INNER JOIN ORIGINS o ON a.originId = o.originId

    INNER JOIN LOCATION l ON m.MHID = l.MHID

    INNER JOIN STATES st ON l.StateID = st.stateID

Where o.originclass = ans;

END;

$$ LANGUAGE plpgsql;

SELECT STATEMENT

SELECT *

FROM locateMetaOrigin(*variable*);

SAMPLE DATA

Alias text	State text	Ability text
Captain America	New York	Peak Physical Condition

*This Sample Data is found using the variable 'Super Soldier Serum' in the locateMetaOrigin() function.

LOCATEMETAABILITY()

PURPOSE

        The ability to search and obtain a record of all Metas with a particular ability can be incredible useful for an agent-user of the SHRA database. When putting together a strike team that requires specific abilities, the database becomes an indispensable resource.

CREATE STATEMENT

```
CREATE OR REPLACE FUNCTION locateMetaAbility(ans text)
RETURNS TABLE ("Alias" text, "State" text, "Origin" text) AS $$
BEGIN
RETURN QUERY
SELECT m.alias , st.stateName, o.Originclass
FROM metahumans m
        INNER JOIN abilities a ON m.MHID = a.MHID
        INNER JOIN types t ON a.typeId = t.typeId
        INNER JOIN ORIGINS o ON a.originId = o.originId
        INNER JOIN LOCATION l ON m.MHID = l.MHID
        INNER JOIN STATES st ON l.StateID = st.stateID
WHERE t.typeclass = ans;
END;
$$ LANGUAGE plpgsql;
```

SELECT STATEMENT

```
SELECT *
FROM locateMetaAbility(variable);
```

SAMPLE DATA

	Alias text	State text	origin text
☐	Captain America	New York	Super Soldier Serum
☐	Patriot	New York	Legacy

*This Sample Data is found using the variable 'Peak Physical Condition' in the locateMetaAbility() function.

SECURITY

        S.H.I.E.L.D prides itself on its hierarchal organization and chain-of-command, and as such, permissions for the database will be handed out based on the internal S.H.I.E.L.D command levels. Since no one below a Scientist will need access to this database without clearance, we will begin at Level 5 and work our way up to Level 10;

LEVEL 5 AGENT

Level Five Agents are scientists and therefore get the Barest minimum information, only being allowed to access the basic Metahuman table.

GRANT SELECT ON metahumans TO LevelFive;

LEVEL 6 AGENT

Level 6 are field operatives and therefore are required to know a bit more about their potential counter-combatants. This means that they are allowed to access information on basic information as well as powers.

GRANT SELECT ON metahumans TO LevelSix;

GRANT SELECT ON abilities TO LevelSix;

GRANT SELECT ON types TO LevelSix;

LEVEL 7 AGENTS

Level 7 represent deep cover combat agents and the beginning of high command. Therefore, they are allowed to access information that can be potentially fatal to Metas if it is received by the wrong hands. This information includes where the Meta is based, their origin, and any team affiliations.

GRANT SELECT ON metahumans TO LevelSeven;

GRANT SELECT ON abilities TO LevelSeven;

GRANT SELECT ON types TO LevelSeven;

GRANT SELECT ON origins TO LevelSeven;

GRANT SELECT ON location TO LevelSeven;

GRANT SELECT ON states TO LevelSeven;

GRANT SELECT ON teams TO LevelSeven;

LEVEL 8 AGENTS

Level 8 agents receive information to an even greater degree than Level 7, gaining access to Meta home addresses to issue missions, allowing these agents to put together teams for missions.

GRANT SELECT ON metahumans TO LevelEight;

GRANT SELECT ON abilities TO LevelEight;

GRANT SELECT ON types TO LevelEight;

GRANT SELECT ON origins TO LevelEight;

GRANT SELECT ON location TO LevelEight;

GRANT SELECT ON states TO LevelEight;

GRANT SELECT ON teams TO LevelEight;

GRANT SELECT ON addresses TO LevelEight;

LEVEL 9 AGENTS

Level 9 represents the second highest rank in S.H.I.E.L.D and as such they receive special permissions to insert, and update the metahumans table aspect of the database. This is to ensure that only the highest level of S.H.I.E.L.D Agent has access to the changing the database in a way that can change the integrity of the data.

GRANT SELECT,INSERT,UPDATE ON metahumans TO LevelEight;

GRANT SELECT ON abilities TO LevelEight;

GRANT SELECT ON types TO LevelEight;

GRANT SELECT ON origins TO LevelEight;

GRANT SELECT ON location TO LevelEight;

GRANT SELECT ON states TO LevelEight;

GRANT SELECT ON teams TO LevelEight;

GRANT SELECT ON addresses TO LevelEight;

LEVEL 10 AGENTS

Director Fury is the only publicly known Level 10 agent. The saying in S.H.I.E.L.D. is that even though he is missing an eye, he sees everything. In this vein of idea, Level 10 Agents have complete access to the entire database.

GRANT ALL ON ALL TABLES IN SCHEMA PUBLIC TO LevelTen;

IMPLEMENTATION

The following notes are on the implementation on the SHRA database.

- Please again note that MHID, PrisonerID, and RegID are not interchangeable. These numbers all reference each other based on different databases that exists in the S.H.I.E.L.D. network.
- The SHRA database is not designed to be used by anyone who does not have code word or level clearance. As such, the permissions for the database limit the data and information received by anyone but the highest Levels of S.H.I.E.L.D agent. In this vein, there are several tables that are completely inaccessible by any agent except agents of the same level as Director Fury
- The database is open enough in its design that it can be added to and edited continuously. As such, there are many options for adding functions, views, and reports at a later date

KNOWN PROBLEMS

Issues arising from this database have been cataloged and are as follows.

- Only Level 9 and Level 10 agents can insert information into metahumans, and only Level 10 can insert data into any other table. In theory once the database is fully operational and the Database administer has surrendered control, there should be no need to insert any information into the majority of tables.
- The *AccessMetaData* view offers technically more information that is advertises to lower level agents. While the information of a Meta's first and last name should be confidential, it can be easily accessed through this View, but the option of making a string of views to appeal to every niche need was not required.
- The *PowerInventory* view is not succinct in its design. While it does master its intended purpose of showing a catalog of powers and their origins, the reality is that except for a few generic powers such as flight, energy projection, and physiological changes, no power is common enough or have a common enough origin to make this more truly useful. This just insinuates that the *PowerInventory* view is only useful in its conjunction with the *LocateMetaOrigin()* and *LocateMetaAbility()* functions.

FUTURE ENHANCMENTS

While the project is complete in the most basic sense of what it has been commissioned for, the database administrator has offered these suggestions for future enhancements.

- A purpose of the database is to facilitate the proliferation of metahumans into the various meta-groups as part of the Fifty State Initiative. As such, functions to catalog the number of Metas in each team and assign new Metahumans to the groups when their rosters are depleted. To properly design this aspect database, there must be more data points in the database.
- Another function of the database should be to depict the locations of each meta more accurately. As such, a function should be derived based on some other technology to bring about a constant location of each registered Meta. This would allow for the dynamic update of the Activity table as well.