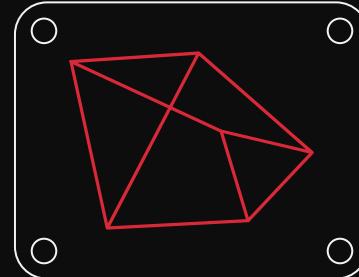
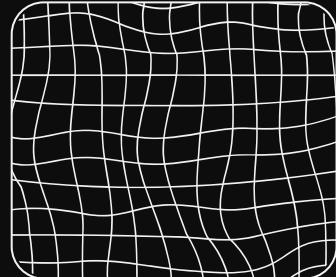




Comprehensive DB of Terrorist Organisations

pre-emptive threat intelligence gathering at
the core of anti-terrorism goals



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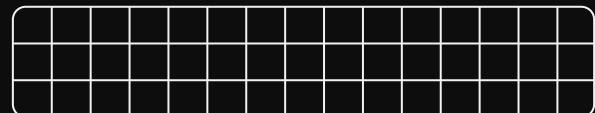
Problems & Future Scope in our DB



OUR Motivation



- Most security tools today focus on visibility and blocking at the point of entry. However, the proliferation of threats far outpaces these fixative and corrective defence tactics, and the subsequent gap can never fully be closed. No new technology will adequately address this security dynamic.

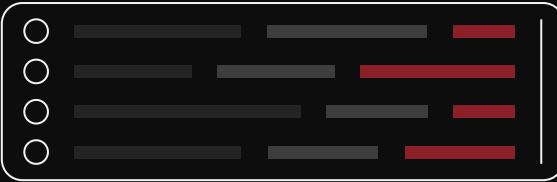
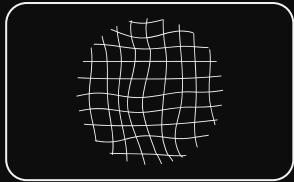


Breakthrough: a defence model that anticipates, mitigates and remediates an attack.

Today to successfully defend your country against terror-attacks, we are required to foresee our threat actor's resources in advance to be able to implement protective means.

This dependency places pre-emptive threat intelligence gathering at the core of anti-terrorism goals





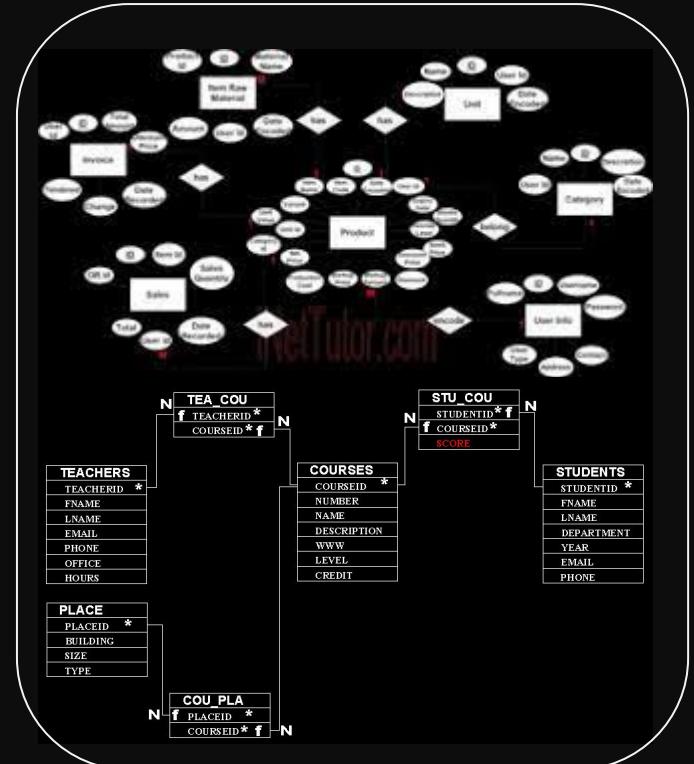
Briefing

*"To know the enemy,
is half the battle won"*

- Art of War

Out there, there are scores of threats
of varying magnitudes that are
conspiring against our country.

However, with the hand in hand Data
Gathering and Analysis , victory will
be ours.



Exploiting Database To Maximum Advantage



Keeping track of the past attacks and activities of the terror groups/ organisation facilitates analysis and prediction of upcoming attacks. How much threat does an Organisation poses, past attacks, upcoming threats , Where are our Spies deployed , our assets, and all the matters of our concern !

Our DB can help in keeping track of

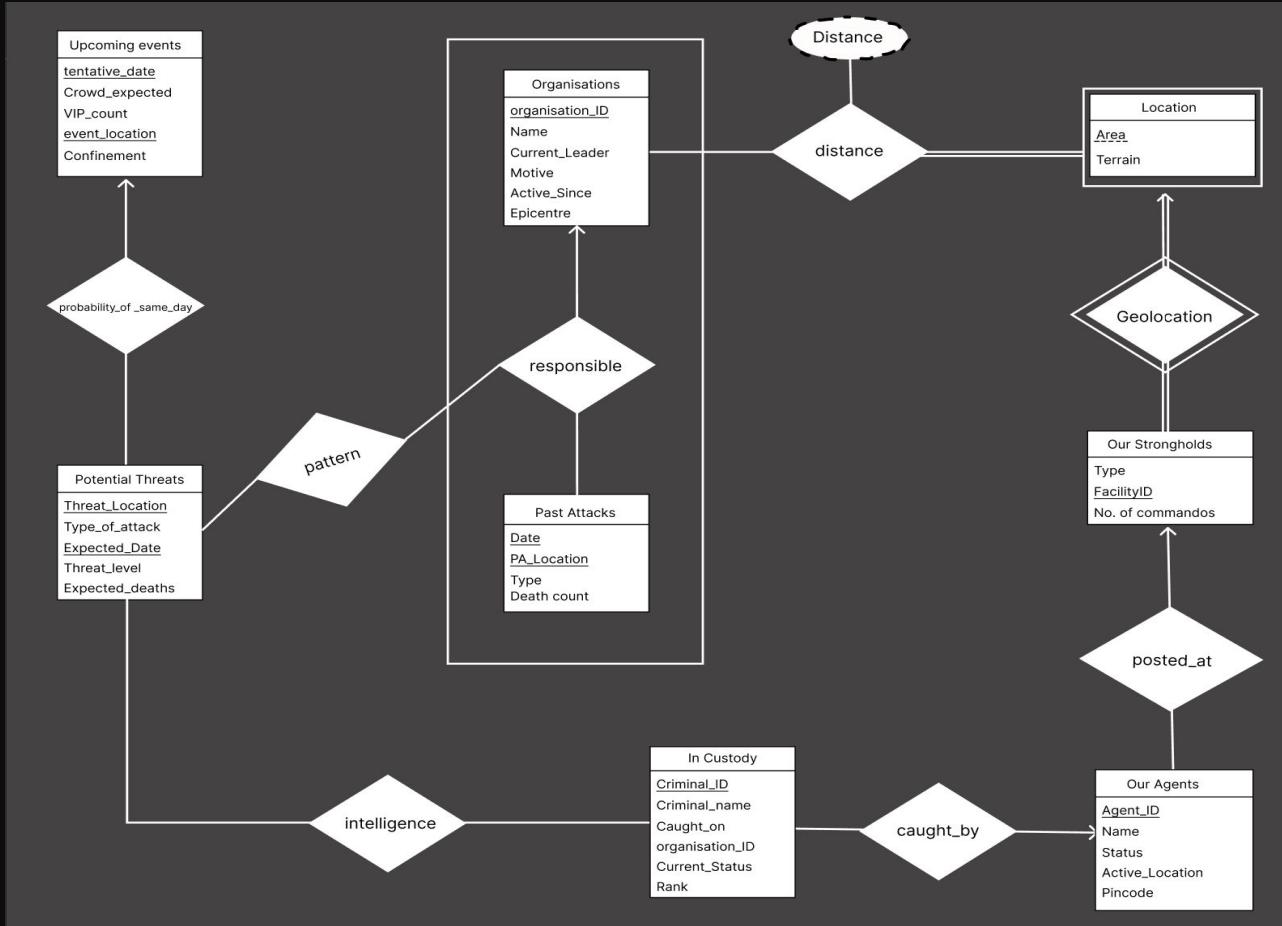
- 1.** All possible Data of Terrorist Organisations
- 2.** Distance of terror organisation's epicentre from our facility
- 3.** Agents / sleeper cells stationed at potential threat epicentres
- 4.** In Custody and past militants & their current status
- 5.** Our Strongholds
- 6.** Potential Threats aggregated from
 - Past Attacks Patterns & Current activities of Terror Organisation
 - Organisation's motive and their Holdings
 - Upcoming Major Events and Invited Dignitaries

Thus, either ambush the enemy at bay or gear up adequately for any potential threat

Assumptions

- 1.** Potential Threats are assumed to be based on Upcoming Major Events and Culprit organisation is expected to be the one which has either a pattern of attack or has a significant member in Government Custody.
- 2.** Agents may be posted/assigned at one of Our Stronghold , but need not be currently present at its location.
- 3.** In Custody members of Terrorist Organisation are assumed to be arrested by 1 agent only
- 4.** Distance is considered to be from different areas to the different Organisation's Epicentre, and that area could have multiple strongholds situated there

ER Diagram



Entity Sets





Organisations

```
Organization(  
    Organization_id int NOT NULL,  
    Organization_Name varchar(40),  
    leader varchar(30),  
    based_on varchar(100),  
    started_in int,  
    epicentre varchar(30),  
    primary key (Organization_id)  
)
```

Organisations
<u>organisation_ID</u>
Name
Current_Leader
Motive
Active_Since
Epicentre

- The entity gives details of the terrorist Organisations like their Motive , Current Leader, and Epicentre i.e. central location of their base camps
- Here the primary key the organisation_ID which refers to the alias name given to that Organisation by the Military

Facility_ID

No._of_Commandos

Type

Our Strongholds

Location
• Area
• Terrain



Our Strongholds

```
Our_strongholds  
(  
    facility_id varchar(10) NOT NULL  
    type varchar(10),  
    no_of_commandos varchar(50)  
    PRIMARY KEY(facility_id ),  
)
```

Our Strongholds
Type
<u>FacilityID</u>
No. of commandos

- The entity gives details of the Our Strongholds like count of military personnel present at the base camps
- Here the primary key is the Facility_ID which is distinct for each camp , even if they are located around the same area

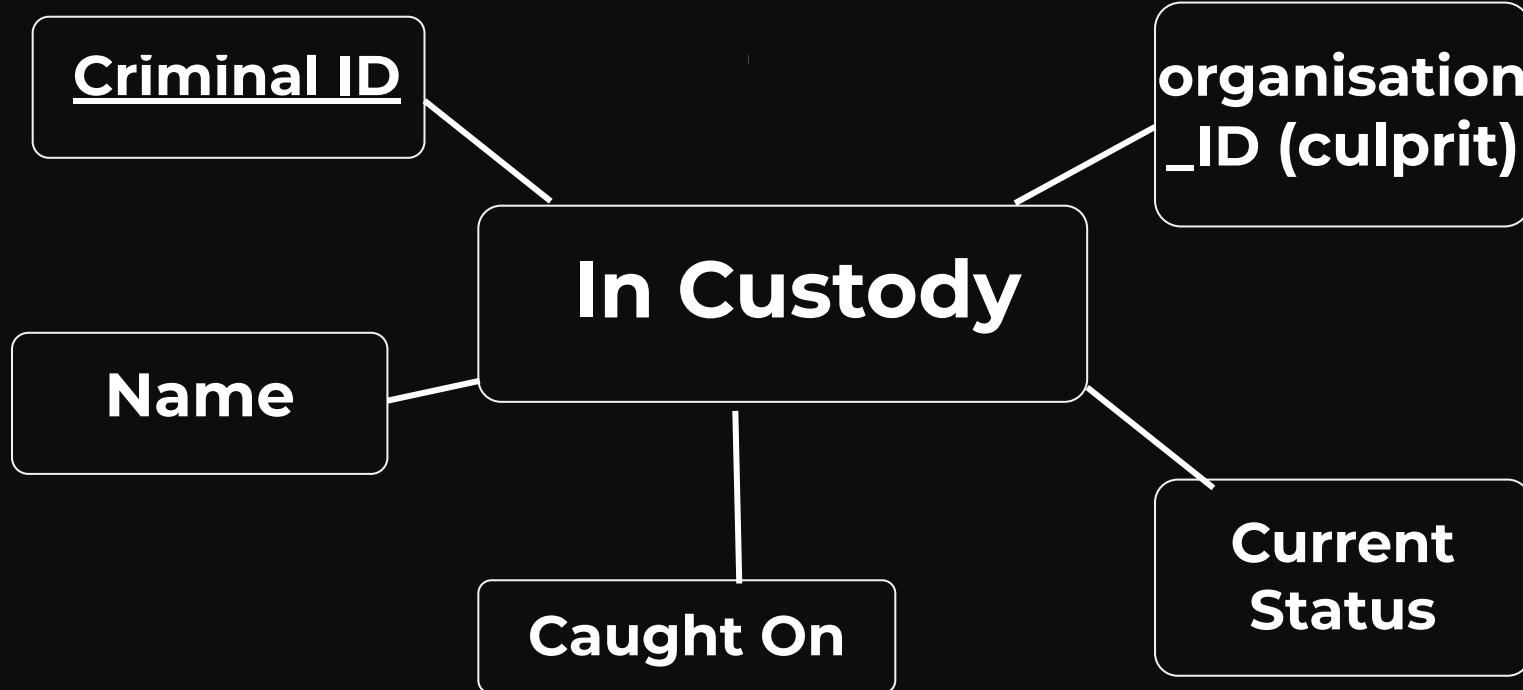


Past Attacks

```
past_attacks(  
    date int NOT NULL,  
    PA_location varchar(30) NOT NULL,  
    type varchar(40),  
    organisation_ID int,  
    death_count int,  
    primary key(date,location)  
)
```

Past Attacks
<u>Date</u>
<u>PA_Location</u>
Type
Death count

- The entity gives details of the past attacks along with culprit Organisation (if known) and death count due to the attack
- Here we have composite primary key as (date, location)as on same day there could be multiple attacks over several locations (assuming all attacks at one location on same day , to be a single attack)

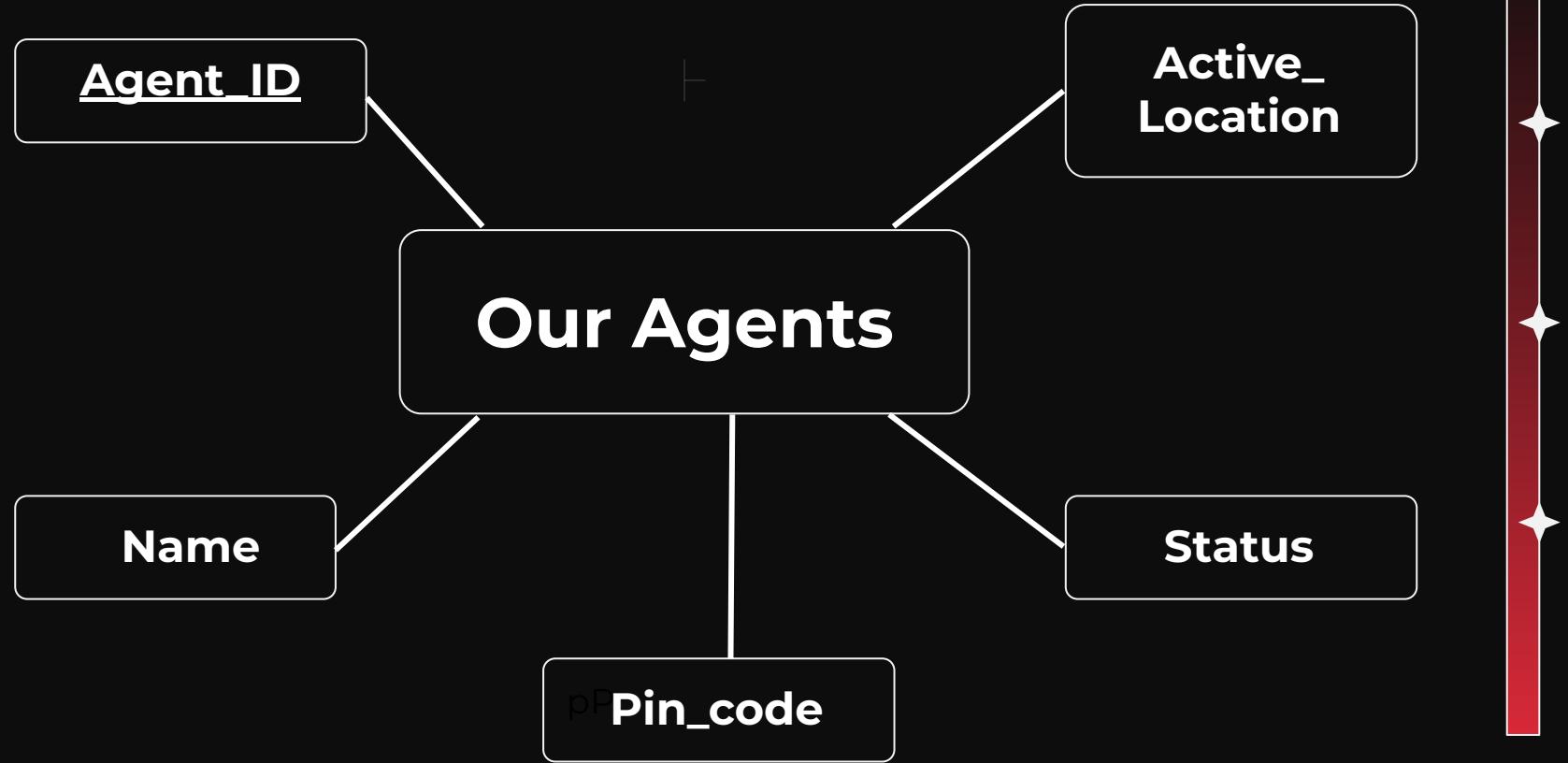


In Custody

```
in_custdy(  
    criminal_id int,  
    name varchar(50),  
    caught_on date,  
    organization_id int,  
    current_status varchar(15),  
    ranking varchar(20)  
)
```

In Custody
<u>Criminal_ID</u>
Criminal_name
Caught_on
organisation_ID
Current_Status
Rank

- The entity gives details of the past attacks along with culprit Organisation (if known) and death count due to the attack
- Here we have composite primary key as (date, location)as on same day there could be multiple attacks over several locations (assuming all attacks at one location on same day , to be a single attack)



Our Agents

```
our_agents
(
    agent_id int,
    name varchar(50),
    status varchar(15),
    active_location varchar(20),
    pincode int,
)
```

Our Agents
<u>Agent_ID</u>
Name
Status
Active_Location
Pincode

- The entity gives details of our agents, their current location and status
- Here the primary key is the Agent_ID which is distinct for each agent, even if they are located around the same area and have same name



Upcoming Events

```
upcoming_events(  
    tentative_date date,  
    crowd_expected int,  
    vip_count int,  
    event_location varchar(50),  
    confinement varchar(20),  
)
```

Upcoming events
<u>tentative_date</u>
Crowd_expected
VIP_count
<u>event_location</u>
Confinement

- The entity gives details of the terrorist Organisations like their Motive , Current Leader, and Epicentre i.e. central location of their base camps
- Here the primary is the organisation_ID which refers to the alias name given to that Organisation by the Military

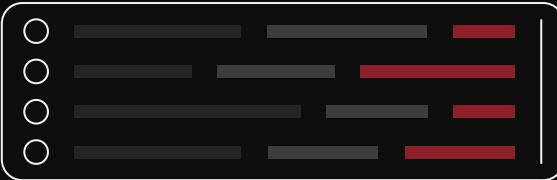
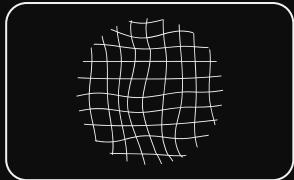


Potential Threats

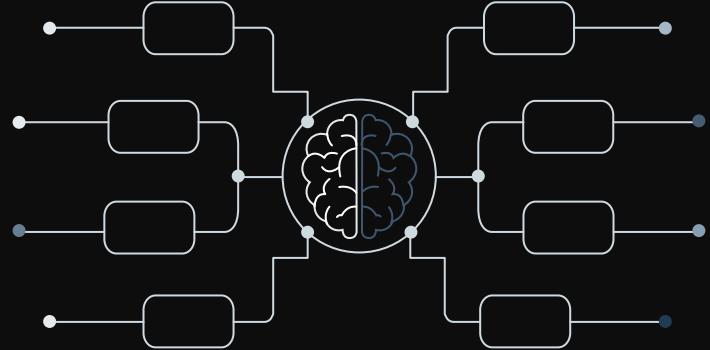
```
potential_threats(  
    threat_location varchar(30),  
    type_of_attack varchar(20),  
    expected_date date,  
    threat_level int,  
    expected_deaths int,  
)
```

Potential Threats
<u>Threat_Location</u>
<u>Type_of_attack</u>
<u>Expected_Date</u>
Threat_level
Expected_deaths

- This is a predictive entity based on aggregated data of various Organisation and their in_custody members, upcoming events
- Here we have composite primary key as (date, location) as on same day there may be possibility of multiple attacks over several locations (assuming all attacks at one location on same day , to be a single attack)



Relationship Sets & Cardinality



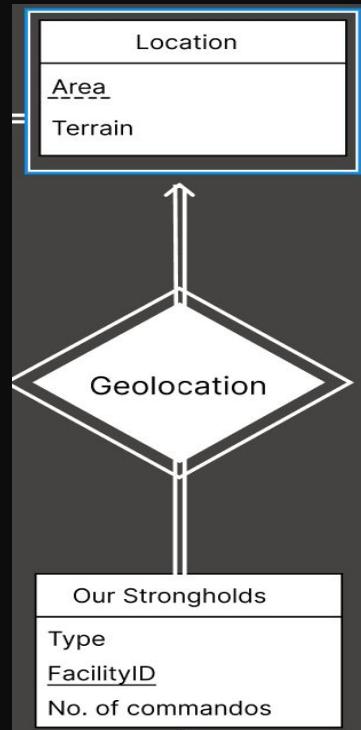
A many-to-many (or M:N) relationship occurs when multiple records in a table are associated with multiple records in another table



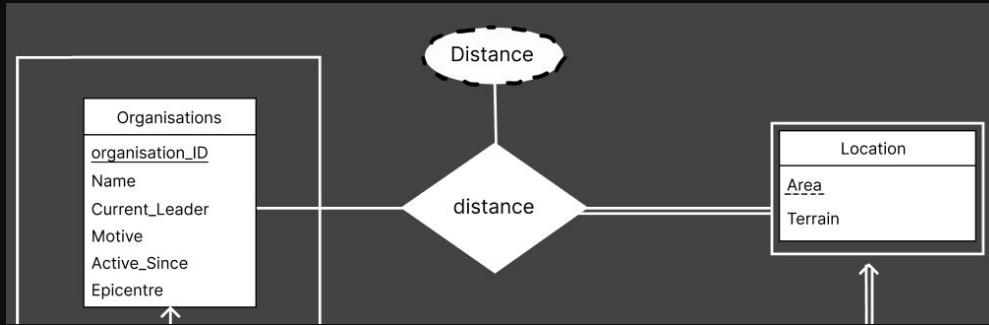
ER Schema

1. Geolocation

- (area, facility_ID)
- Geolocation is a many-to-one relationship between Our_Strongholds and Location as multiple Strongholds can be present around a Single Area.
- Hence we add a new table for Geolocation.
- Entities show total participation as each Strongholds has an Area



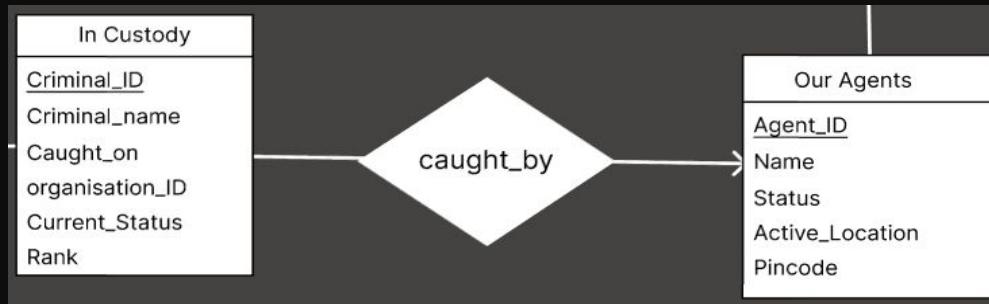
2. Distance



- (Organisation_ID, Area, Facility_ID, Distance)
- Distance is a many-to-many relationship between weak entity Location and Organisation as multiple areas have different distances with respect to different organisations
- Hence we add a new table for Distance.
- Entities show total participation as each Location is distant from Organisation's Epicentre

3. Caught_By

- (Agent_ID, Criminal_ID)
- Caught_by is a one-to-many relationship between Our_Agents and In_Custody as multiple criminals may have been caught by each Agent
- Hence we add a new table for Caught_by.
- In_Custody shows total participation as each criminal is caught by agent.



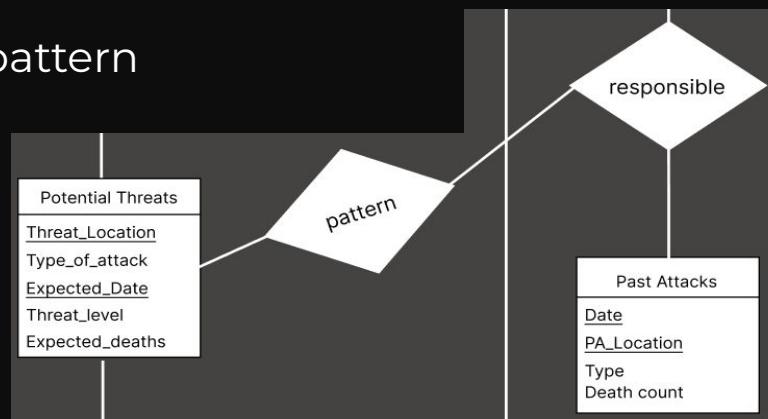
4. Intelligence



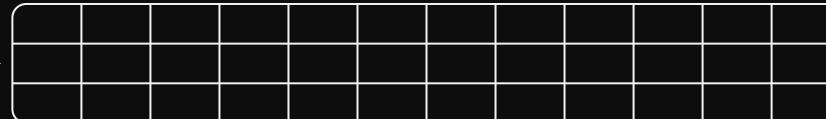
- (Criminal_ID, Location, Expected Date)
- Intelligence is a many-to-many relationship between In_Custody and Potential_Threats as multiple threats can potential and may be related to multiple In_custody criminals
- Hence we add a new table for Intelligence

5. Pattern

- (Threat_Location, Expected_Date, date, location)
- Pattern is a many-to-many relationship between Past_Attacks and Potential_Threats as multiple threats can potential and may be related to multiple past_attacks
- Hence we add a new table for pattern



Functional Dependencies





Functional Dependencies

Organisations	organisation_ID -> Name, current_leader, based_on, active_since, epicentre Name -> organisation_ID, current_leader, based_on, active_since, epicentre
Our Strongholds	facility_id-> type , no_of_commandos
Location	facility_id,area-> terrain
Past Attacks	date, location -> type, organisation_ID, death_count
In Custody	criminal_id-> name, caught_on, organization_id , current_status, ranking

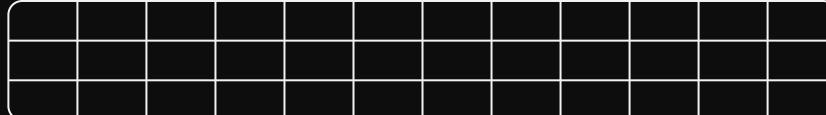


Functional Dependencies

In Custody	criminal_id-> name, caught_on, organization_id , current_status, ranking
Our Agents	agent_ID-> name, status, current_location, facility_ID, pincode current_location->pincode pincode->current_location
Upcoming Events	expected_date,location -> crowd_no_expected, vip_count, confinement
Potential Threats	expected_date,location-> type_of_attack, threat_level_outOFten, expected_casualty



Normalisation





Organizations

Primary key : organisation_ID

Candidate key : Name, organisation_ID

FD:

organisation_ID \rightarrow Name, current_leader, based_on, active_since, epicentre

Name \rightarrow organisation_ID, current_leader, based_on, active_since, epicentre

1NF : It is in 1NF since all the attributes are atomic in nature.

2NF : Since there is no partial dependency, and is in 1NF, therefore it is in 2NF.

3NF : Since there is no transitive dependency, and is in 2NF, therefore it is in 3NF.

BCNF : Since there is no non-prime attribute defining a prime attribute, and is in 3NF, it is in BCNF.



Our_Strongholds

Primary key : facility_id

Candidate key : facility_id

FD: facility_id-> type , no_of_commandos

1NF : It is in 1NF since all the attributes are atomic in nature.

2NF : Since there is no partial dependency, and is in 1NF, therefore it is in 2NF.

3NF : Since there is no transitive dependency, and is in 2NF, therefore it is in 3NF.

BCNF : Since there is no non-prime attribute defining a prime attribute, and is in 3NF, it is in BCNF.



Our_Agents

Primary key : agent_ID

Candidate key : agent_id

FD:

agent_ID-> name, status, current_location, facility_ID, pincode

current_location->pin_code

pin_code->current_location

1NF : It is in 1NF since all the attributes are atomic in nature.

2NF : It is in 1NF and since there is no partial dependency, it is in 2NF

3NF : current_location->pin_code & pin_code->current_location

Since there is transitive dependency we need to split the table into 2 relation :

R1(agent_ID, name, status, current_location, facility_ID)

R2(current_location, pincode)

Now the resulting 2 relations are in 3NF form

BCNF : Since there is no non-prime attribute defining a prime attribute(Agent_ID), and is in 3NF, it is in BCNF.



Upcoming Events

Primary key : expected_date, Location

Candidate key: {expected date , location }

FD:

Expected_date, location -> crowd_expected, vip_count, confinement

1NF : It is in 1NF since all the attributes are atomic in nature.

2NF : Since there is no partial dependency, and is in 1NF, therefore it is in 2NF.

3NF : Since there is no transitive dependency, and is in 2NF, therefore it is in 3NF.

BCNF : Since there is no non-prime attribute defining a prime attribute, and is in 3NF, it is in BCNF.



In_Custody

Primary key: criminal_id

Candidate key : { criminal_id , (name , caught_on)}

FD:

criminal_id-> name, caught_on, organization_id , current_status, ranking

(name, caught_on) -> organisation_id , current_status , ranking

1NF : It is in 1NF since all the attributes are atomic in nature.

2NF : Since there is no partial dependency, and is in 1NF, therefore it is in 2NF.

3NF : Since there is no transitive dependency, and is in 2NF, therefore it is in 3NF.

BCNF : Since there is no non-prime attribute defining a prime attribute, and is in 3NF, it is in BCNF.



Potential Threats

Primary key : expected_date, Location

Candidate key: {expected date , location }

FD:

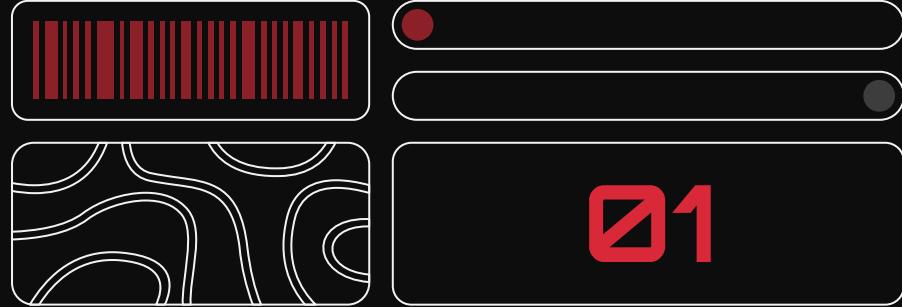
Expected_date, location-> type_of_attack, threat_level, expected_deaths

1NF : It is in 1NF since all the attributes are atomic in nature.

2NF : Since there is no partial dependency, and is in 1NF, therefore it is in 2NF.

3NF : Since there is no transitive dependency, and is in 2NF, therefore is in 3NF.

BCNF : Since there is no non-prime attribute defining a prime attribute, and is in 3NF, it is in BCNF.



Entity Sets to Schemas

You can enter a subtitle
here if you need it





Entity Sets to Schemas

1. **Organisation** (organisation_ID , Name , Current_Leader , Motive , Active_since , Epicentre)
2. **Past_Attacks** (Date , Location , Type , organisation_ID (FK), Death_count)
3. **Upcoming_Events** (Tentative dates , event_Location , Crowd , VIP_count , Mode_of_attack , confinement)
4. **Potential_Threats** (Location , expected date, Type_of_attack , , Threat_level , Expected_deaths, tentative_date (FK) , event_location(FK))



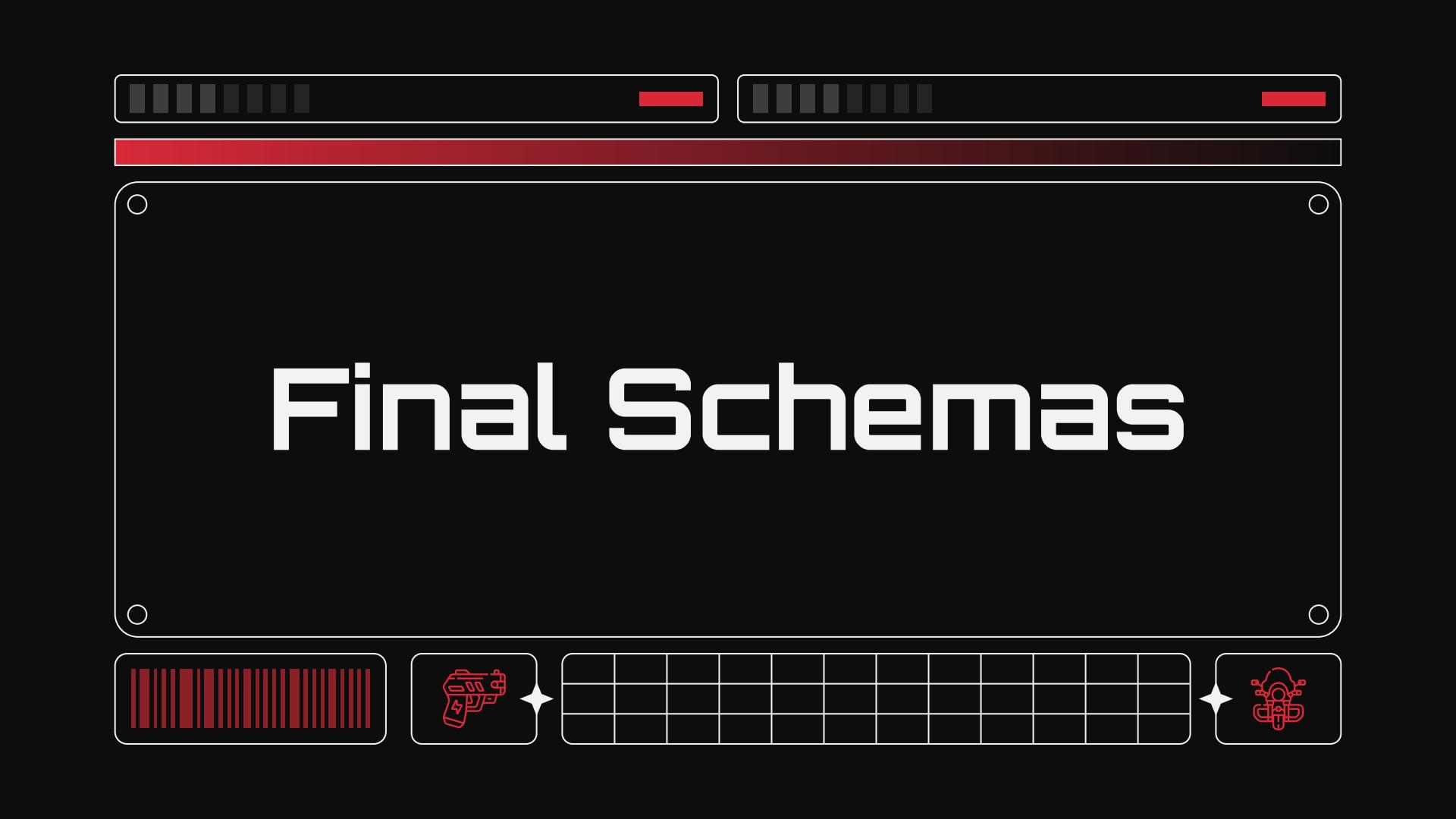
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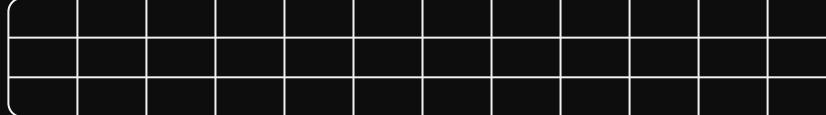
-

Entity Sets to Schemas

5. **In_Custody** (Criminal_ID , Name , Caught_On , organisation_ID , Current status , Rank)
6. **Our Agents** (AgentID , Name , Status , Active_Location , Pincode , Facility_ID, Organisation_ID(FK))
7. **Agent_Location**(active_location, pincode)
8. **Our_Strongholds** (Type , Facility_ID , No of commandos)



Final Schemas





Final Schemas

1. **Organisation** (organisation_ID , Name , Current_Leader , Motive , Active_since , Epicentre)
2. **Past Attacks** (Date , PA_Location , Type , organisation_ID (FK), Death_count)
3. **Upcoming events** (Tentative dates , event_Location , Crowd_expected , VIP_count , confinement)
4. **Potential Threats** (PA_Location(FK) ,Date(FK), threat_location, expected date, Type_of_attack , Threat_level , Expected_deaths, tentative_date (FK) , event_location(FK))
5. **Intelligence** (Threat_Location , Expected date , Criminal_ID)
6. **Pattern** (threat_location , Expected date , PA_location , Date)
7. **In_Custody** (Criminal_ID , Name , Caught_On , organisation_ID , Current status , Rank, Agent_ID(FK))

```
mysql> select * from organization;
```

Organization_id	Organization_Name	current_leader	motive	active_since	epicentre
1	jaish e mohhamad	masood azahar	pakistan based devbandi jihadi militant group	2000	barmer
2	lashkar e-taiyaba	hafiz mohhamad saied	pakistan based islamist milltant group	1987	muzaffarabad
3	lashkar e-qahhar	riaz basara	pakistan based islamist group	1993	meerpur
4	harkat-ul-jihad al islamic	maulana abdus salam	bangladesh based islamic jihad group	1992	bhimber
5	hizbul mujahiddin	mohhamad asaraf khan	islamist millitary group	1989	palandhari
6	alquada	ayman al-zawahari	millitant sunni islamic extremist	1998	mujaffarabad
7	taliban	habittulah akhundaz	afganistan-pakistan	1994	pallandari
8	dindar anzuman	Abdul bari	syria based millatant group	1998	khahuta
9	zullulu-al-zuha	Abdul kasim	myanmar and china rebelist	1979	muzzafarabad
10	united terrorist of peshawar	harish zuba	indian based poor millitant group	2022	hattianbala

```
10 rows in set (0.00 sec)
```

```
mysql> select * from past_attacks;
```

pa_date	Pa_location	pa_type	organization_id	death_count
2001	j&k	bombing and firing	1	3
2001	new delhi	assult	2	7
2004	ashoura	shooting	6	56
2005	new delhi	bombing and explosion	2	62
2006	mumbai	train blast	3	71
2006	sadar	suicide bombing	6	11
2008	mumbai	shooting and bombing	2	31
2013	j&k	firing and bombing	6	35
2016	uri	bombing and assults	1	23
2019	pulwama	whehical born suicide bomb	1	40

```
10 rows in set (0.00 sec)
```

```
[mysql] > select * from upcoming_events;
```

tentative_date	crowd_no_expected	vip_count	event_location	confinement
2022-11-21	1000	8	chandani chawk new delhi	market
2023-01-26	450	3	red fort	tourist place
2023-03-02	250	1	lullu mall lucknow	mall
2023-04-13	100	2	lucknow metro station	train station
2023-05-09	50	20	PMO office new delhi	building
2023-08-15	200	6	vikas bhawan kolkata	building
2023-08-17	120	2	pathakote base camp	open ground
2023-08-20	180	5	hawamahal jaipur	market
2023-09-13	350	1	kolkata airport	building
2023-11-26	300	40	parliament new delhi	building

```
10 rows in set (0.00 sec)
```

```
[mysql] > select * from potential_threats;
```

threat_location	tyep_of_attack	expected_date	threat_level_outOfTen	expected_death	tentative_date	event_location	pa_date	pa_location
chandani chawk	sucide bomber	2023-11-21	7	400	2022-11-21	chandani chawk	2021-11-25	chandani chawk
hawamahal jaipur	bombings	2023-09-13	8	150	2023-08-20	hawamahal jaipur	2018-05-12	hawamahal jaipur
IONEX mall jammu	assult	2023-08-20	10	25	2023-08-17	IONEX base camp jammu	2020-08-20	ionex base camp jammu
kolkata airport	highjack	2023-11-26	10	300	2023-09-13	kolkata airport	2021-09-18	kolkata airport
lucknow metro station	train blast	2023-05-09	5	30	2023-04-13	lucknow metro station	2022-04-10	lucknow metro stati
Lullu mall lucknow	hostage	2023-04-13	8	25	2023-03-02	lullu mall lucknow	2022-03-12	lullu mall lucknow
parliament	hostage	2023-12-13	10	325	2023-11-26	parliament	2009-11-26	parliament
pmo office	hostage	2023-09-15	9	10	2023-05-09	pmo office	2023-05-09	pmo office
Redfort delhi	assult	2023-03-02	5	150	2023-01-26	red Fort delhi	2022-01-26	red Fort delhi
vikas bhawan kolkata	assult	2023-08-17	6	100	2023-08-15	vikas bhawan kolkata	2023-08-21	vikas bhawan kolkata

```
10 rows in set (0.01 sec)
```

```
[mysql]> select * from intelligence;
```

threat_location	expected_date	criminal_id
chandani chawk	2022-11-01	2137
red fort delhi	2023-01-26	2265
lullu mall lucknow	2023-03-01	2377
lucknow metro station	2023-04-01	3479
pmo office	2023-05-01	4320
vikas bhawan kolkata	2023-08-01	1057
ionex base camp jammu	2023-08-01	1370
hawamahal jaipur	2023-08-01	1662
kolkata airport	2023-09-01	1788
parliament	2023-11-01	1998

```
10 rows in set (0.00 sec)
```

```
[mysql]> select * from pattern;
```

threat_location	expected_date	pa_location	pa_date
chandani chawk	2022-11-01	j&k	2001-10-01
red fort delhi	2023-01-26	uri	2016-09-18
lullu mall lucknow	2023-03-01	pulwama	2019-02-14
lucknow metro station	2023-04-01	new delhi	2001-12-13
pmo office	2023-05-01	new delhi	2005-10-29
vikas bhawan kolkata	2023-08-01	mumbai	2008-11-26
ionex base camp jammu	2023-08-01	ashoura	2004-03-02
hawamahal jaipur	2023-08-01	sadar	2006-11-23
kolkata airport	2023-09-01	j&k	2013-03-13
parliament	2023-11-01	mumbai	2006-07-11

```
10 rows in set (0.00 sec)
```

```
[mysql]> select * from in_custdy;
```

criminal_id	Criminal_name	cought_on	organization_id	current_status	ranking	agent_id
101	Ajmal kasab	2008-11-26	2	deceased	commander	1014
102	Md.farookh	2008-11-26	2	deceased	millitant	1734
103	Zakir rahaman lakhwi	2008-11-26	2	deceased	millitant	9987
104	Abdul rahaman	2016-01-22	1	in custody	commander	9845
105	kadir khan	2016-01-22	1	deceased	millitant	1256
106	Rahil rizwi	2019-08-17	1	in custody	millitant	9987
107	Shan masood	2019-08-17	1	deceased	sub commander	1014
108	Ahamad khan	2019-08-17	1	strong suspect	millitant	1734
109	Zunaid muzarbani	2013-01-21	6	deceased	commander	9845
110	Md.al hasan	2013-01-21	6	deceased	sub commander	1734

```
10 rows in set (0.01 sec)
```



Final Schemas

8. **Our Agents** (AgentID , Name , Status , Active_Location , Facility_ID(FK))
9. **Agent_Location**(active_location, pincode)
10. **Our_Strongholds** (Type , Facility_ID , No of commandos)
11. **Distance** (organisation_ID, Facility_ID, Area, Distance)
12. Since **Location** is a weak entity set and Geolocation is the identifying relationship with Our_Stronghold as the strong entity set. Also, Our_Stronghold is on the many side of the relationship set Geolocation and Hence the Facility_ID (primary key of Our_Stronghold) acts as the primary key of Location. **Location(Facility_ID, Area, Terrain)**

```
[mysql] > select * from our_agents;
```

agent_id	agent_name	status	active_location	facility_id	
1014	col sandeep bajwa	active	muzzafarabad	LH072	
1256	col Vikramjeet rathoure	deceased	pallandari	JU036	
1423	col suraj chiragiya	passive	muzzafarabad	MB006	
1573	col jitendra patel	deceased	bheemder	PB011	
1734	copt. rahul singh	active	mirpur	RJ002	
2032	lt.Raghbir shahay	passive	pallandari	JK002	
3943	major vikram batra	active	hattianbala	KL005	[mysql] > select * from agent_location;
9845	col surekha bajpayee	passive	muzzafarabad	JK001	+-----+-----+
9983	Lt.Srinivas reddy	active	bheemder	GJ015	active_location pincode
9987	major Amit sadh	deceased	hattianbala	RJ018	+-----+-----+

```
10 rows in set (0.00 sec)
```

```
[mysql] > select * from agent_location;
```

active_location	pincode
palandhari	204005
hattianbala	231415
bhimber	305006
bhimber	305006
mirpur	405007
muzaffarabad	304005

```
6 rows in set (0.00 sec)
```

```
mysql> select * from our_strongholds;
```

facility_id	OS_type	no_of_commandos
GJ015	water	80
JK001	air	100
JK002	land	50
JU036	air	120
KL005	water	50
LH072	air	70
MB006	land	20
PB011	land	40
RJ002	land	40
RJ018	land	70

```
10 rows in set (0.00 sec)
```

```
mysql> select * from location;
```

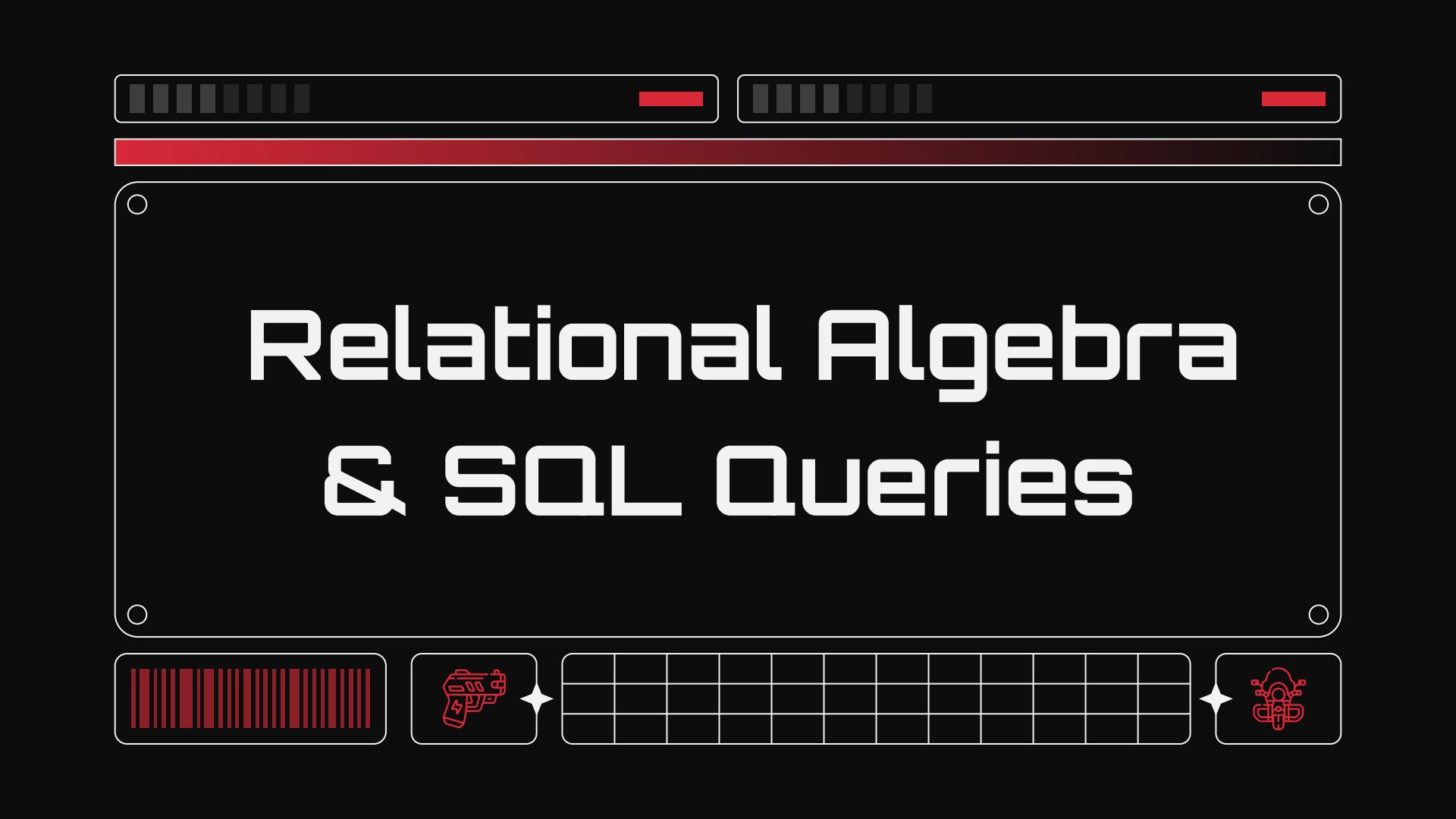
facility_id	area	terrain
LH072	lashkar	flats
JK005	leh	cliffs
JU036	srinagar	flats
MB006	delhi	rocky
GJ015	bhuj	mountains
RJ002	udaipur	sandy
JK001	silchar	flats
KL005	agra	flats
RJ018	jaipur	cliffs
PB011	bhatinda	rocky

```
10 rows in set (0.00 sec)
```

```
mysql> select * from distance;
```

organization_id	facility_id	area	distance_in_km
1	LH072	lashkar	200
2	JK005	leh	50
3	JU036	srinagar	40
4	MB006	delhi	190
5	GJ015	bhuj	70
6	RJ002	udaipur	150
7	JK001	silchar	20
8	KL005	agra	250
9	RJ018	jaipur	110
10	PB011	bhatinda	90

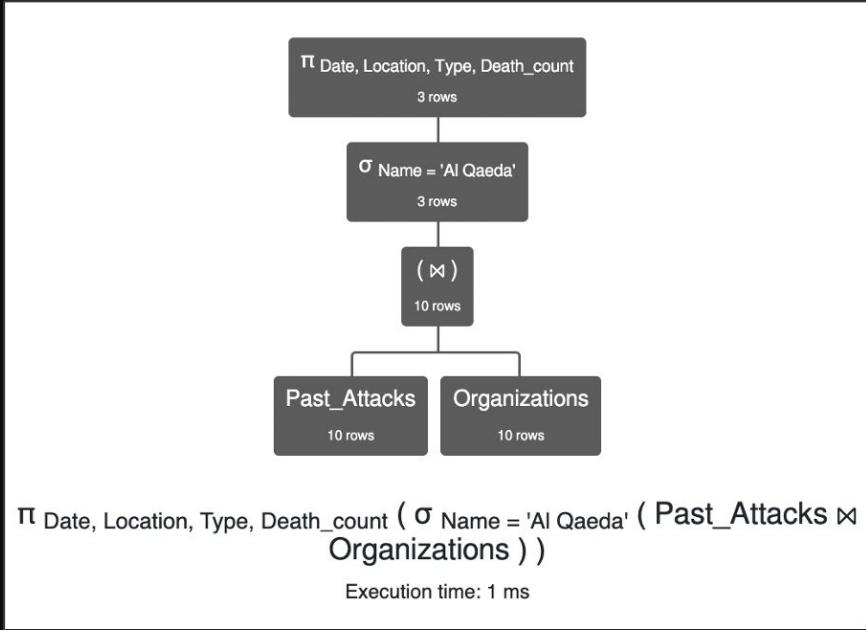
```
10 rows in set (0.00 sec)
```



Relational Algebra & SQL Queries

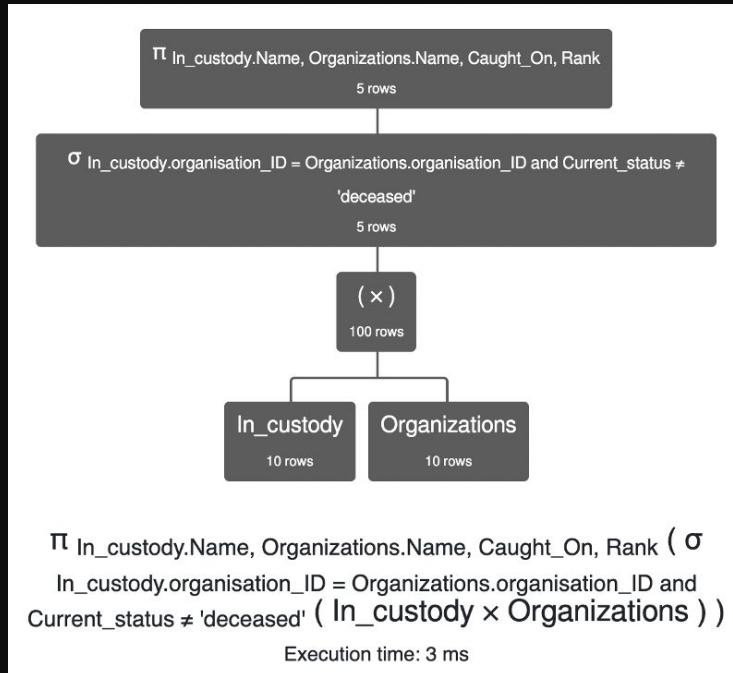


1 . List details of all past attacks by Al Qaeda



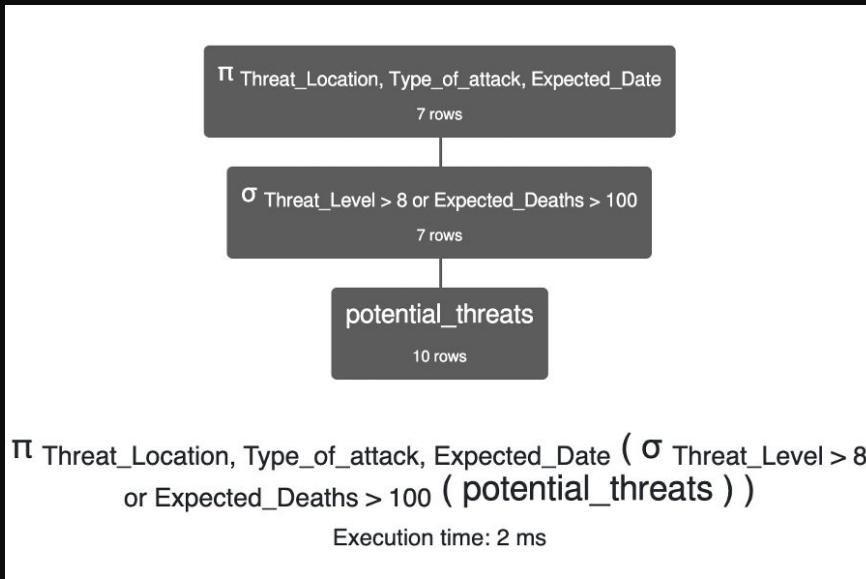
Past_Attacks.Date	Past_Attacks.Location	Past_Attacks.Type	Past_Attacks.Death_count
'02/03/2004'	'Ashura '	'Shooting '	56
'23/11/2006'	'sadar'	'suicide bomber'	11
'13/03/2013'	'J&K'	'firing and bombing'	35

2 . List all members of terrorist group who are alive in custody .



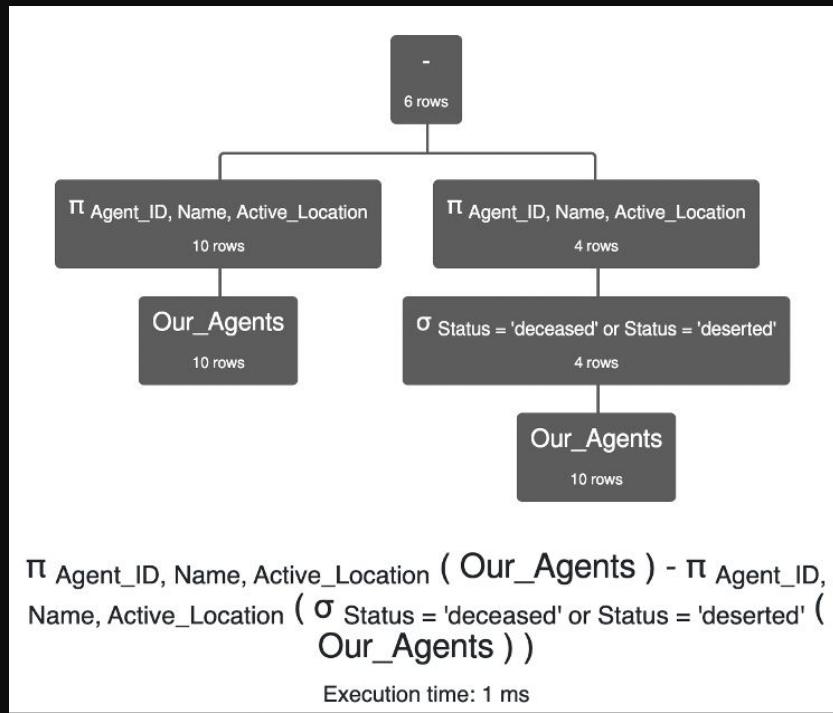
In_custody.Name	Organizations.Name	In_custody.Caught_On	In_custody.Rank
'abdul rahman'	'Jaish-e-mohammad'	'22/2/2016'	'Commander'
'kadir khan'	'Jaish-e-mohammad'	'22/02/2016'	'Militant'
'rahil rizwi'	"Lahkar-e-Qahhar"	'17/08/2019'	'Militant'
'shan masood'	'Jaish-e-mohammad'	'17/08/2019'	'Leader number 2'
'Mahommad Rufiz'	'Jaish-e-mohammad'	'17/08/2019'	'Militant'

3. List threat location , type of attack and expected date for threat having threat level greater than 8 or expected deaths greater than 100



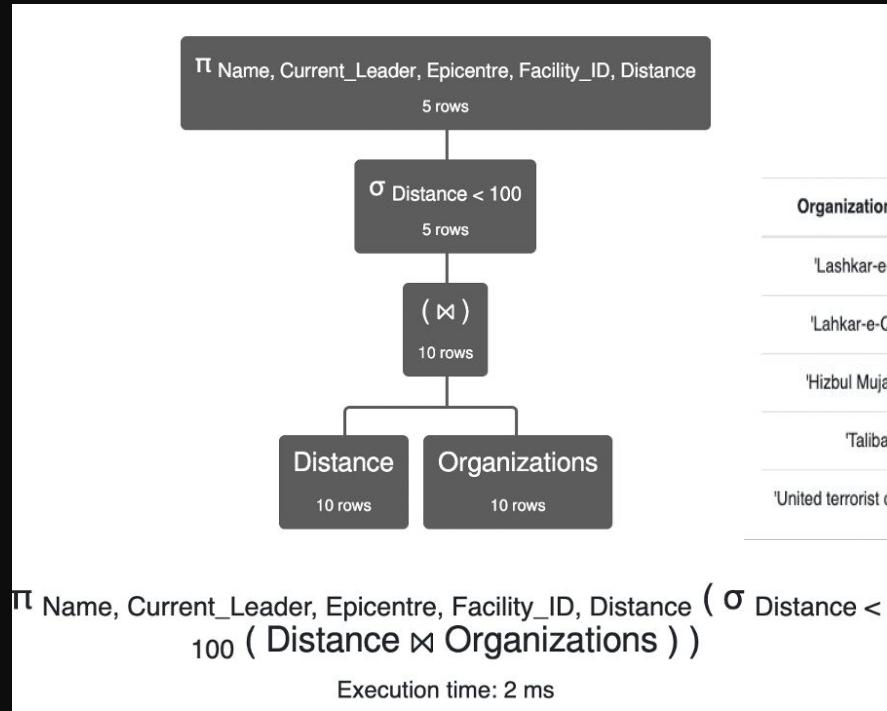
potential_threats.Threat_Location	potential_threats.Type_of_attack	potential_threats.Expected_Date
'Chandani Chowk'	'Suicide Bomber'	'1/11/2022'
'Red Fort, Delhi'	'Assault'	'26/01/2023'
'PMO office'	'Hostage '	'01/05/2023'
'lonex base camp,Jammu'	'Assault'	'01/08/2023'
'Jaipur'	'Bombings'	'01/08/2023'
'Kolkata Airport'	'Hijack'	'13/09/2023'
'Parliament'	'Hostage'	'1/11/2023'

4. List agentid , name and active location of agents who are neither dead nor did they desert



Our_Agents.Agent_ID	Our_Agents.Name	Our_Agents.Active_Location
1014	'col.Sandeep bawaja'	'Muzaffarabad'
2032	'left.Raghbir sahay'	'Pallandari'
9983	'left.Srinivas reddy'	'Bhimber'
1734	'caption Rahul Singh Shekhawat'	'Mirpur'
9845	'captain surekha vajpayee'	'Muzaffarabad'
3943	'major VIKRAM batra'	'Hattian Bala'

5. List organization name , current leader , stronghold facility id and distance from epicentre(in clicks) such that distance < 100 clicks .



Organizations.Name	Organizations.Current_Leader	Organizations.Epicentre	Distance.Facility_ID	Distance.Distance
'Lashkar-e-Taiba'	'Hafiz Muhammed Saeed'	'Muzaffarabad'	'JK002'	50
'Lahkar-e-Qahhar'	'Riaz Basra'	'Mirpur'	'JU036'	40
'Hizbul Mujahideen'	'Muhammad Ashraf Khan'	'Pallandari'	'GJ015'	70
'Taliban'	'Habibullah Akhundzada'	'Pallandari'	'JK001'	20
'United terrorist of peshawar'	'Haris zuba'	'Hattian Bala'	'PB011'	90

1. Query to details of organizations which are more than 10 km far from Our Stronghold

```
mysql> select Organization_name , current_leader , epicentre , facility_id , distance_in_km from distance natural join organization where distance_in_km > 100
;
+-----+-----+-----+-----+-----+
| Organization_name | current_leader | epicentre | facility_id | distance_in_km |
+-----+-----+-----+-----+-----+
| jaish e mohhamad | masood azahar | barmer    | LH072      | 200        |
| harkat-ul-jihad al islamic | maulana abdus salam | bhimber    | MB006      | 190        |
| alquada          | ayman al-zawahari | mujaffarabad | RJ002      | 150        |
| dindar anzuman  | Abdul bari       | khahuta    | KL005      | 250        |
| zullulu-al-zuha | Abdul kasim     | muzzafarabad | RJ018      | 110        |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

2. Query to show Agents active in Muzzafarabad

```
|mysql> select agent_id , agent_name from our_agents where active_location = 'muzzafarabad';
+-----+-----+
| agent_id | agent_name      |
+-----+-----+
|   1014  | col sandeep bajwa |
|   1423  | col suraj chiragiya |
|   9845  | col surekha bajpayee |
+-----+-----+
3 rows in set (0.01 sec)
```

3. Query to show Agent_ID of those agents who have caught more than 1 criminal

```
mysql> select agent_id , count(agent_id) as criminals from in_custdy group by agent_id having criminals >= 2 ;
+-----+-----+
| agent_id | criminals |
+-----+-----+
|    1014 |        2 |
|    1734 |        3 |
|    9845 |        2 |
|   9987 |        2 |
+-----+-----+
4 rows in set (0.00 sec)
```

4. List Potential threats with threat level greater than 5 or having date coinciding with upcoming event's date

```
mysql> select threat_location,expected_date,tyep_of_attack from potential_threats,upcoming_events where potential_threats.expected_date = upcoming_events.event_date and threat_level_outOfTen > 5;
+-----+-----+-----+
| threat_location | expected_date | tyep_of_attack |
+-----+-----+-----+
| hawamahal jaipur | 2023-09-13 | bombings |
| IONEX mall jammu | 2023-08-20 | assault |
| kolkata airport | 2023-11-26 | highjack |
| Lulu mall lucknow | 2023-04-13 | hostage |
| vikas bhawan kolkata | 2023-08-17 | assault |
+-----+-----+-----+
```

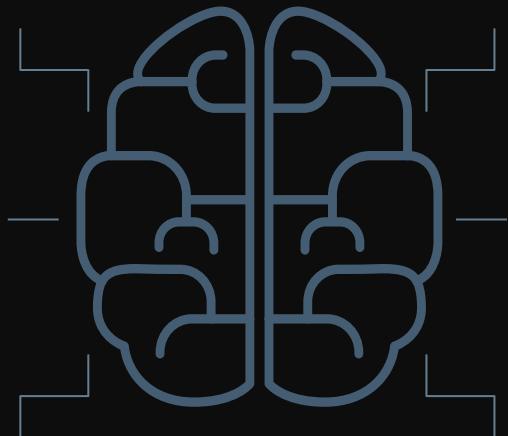
5. Show details of Organization and Past Attacks, for all attacks by lashkar e-taiyabe

```
mysql> select pa_date,pa_location,organization_name,pa_type,death_count from past_attacks,organization where organization.organization_id=past_attacks.organi  
zation_id and organization_name = 'lashkar e-taiyaba';  
+-----+-----+-----+-----+-----+  
| pa_date | pa_location | organization_name | pa_type | death_count |  
+-----+-----+-----+-----+-----+  
| 2001 | new delhi | lashkar e-taiyaba | assault | 7 |  
| 2005 | new delhi | lashkar e-taiyaba | bombing and explosion | 62 |  
| 2008 | mumbai | lashkar e-taiyaba | shooting and bombing | 31 |  
+-----+-----+-----+-----+-----+
```

PROBLEMS in Our DB



1. To make the database simpler, we have taken too many assumptions.
2. With the limited data, the prediction is not so accurate.
3. With the change in the modern world, gathering all information is not viable.



Future Scope in our DB

1.

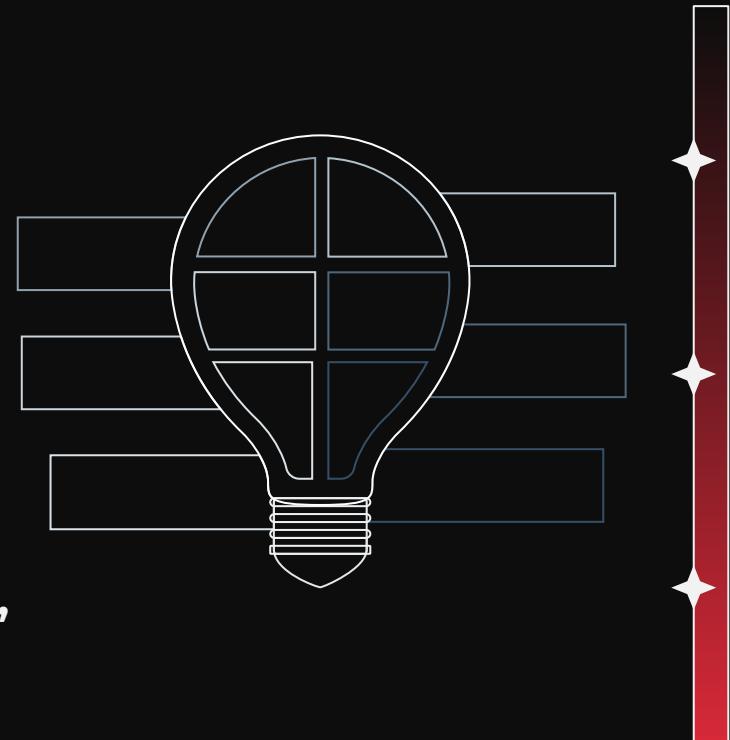
**With the development of AI
the prediction will be far
more accurate.**

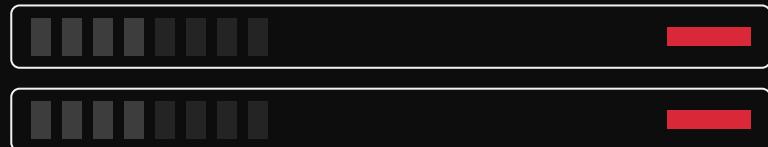
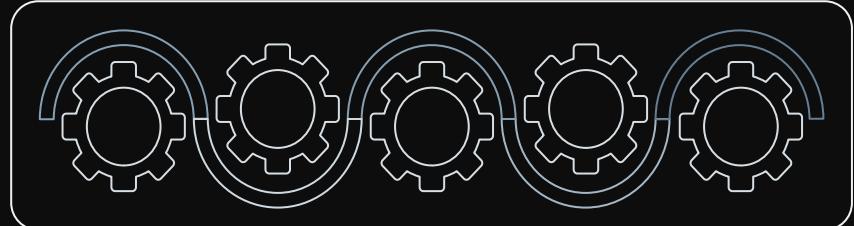
2.

**So the attacks could be
stopped even before they
happen.**

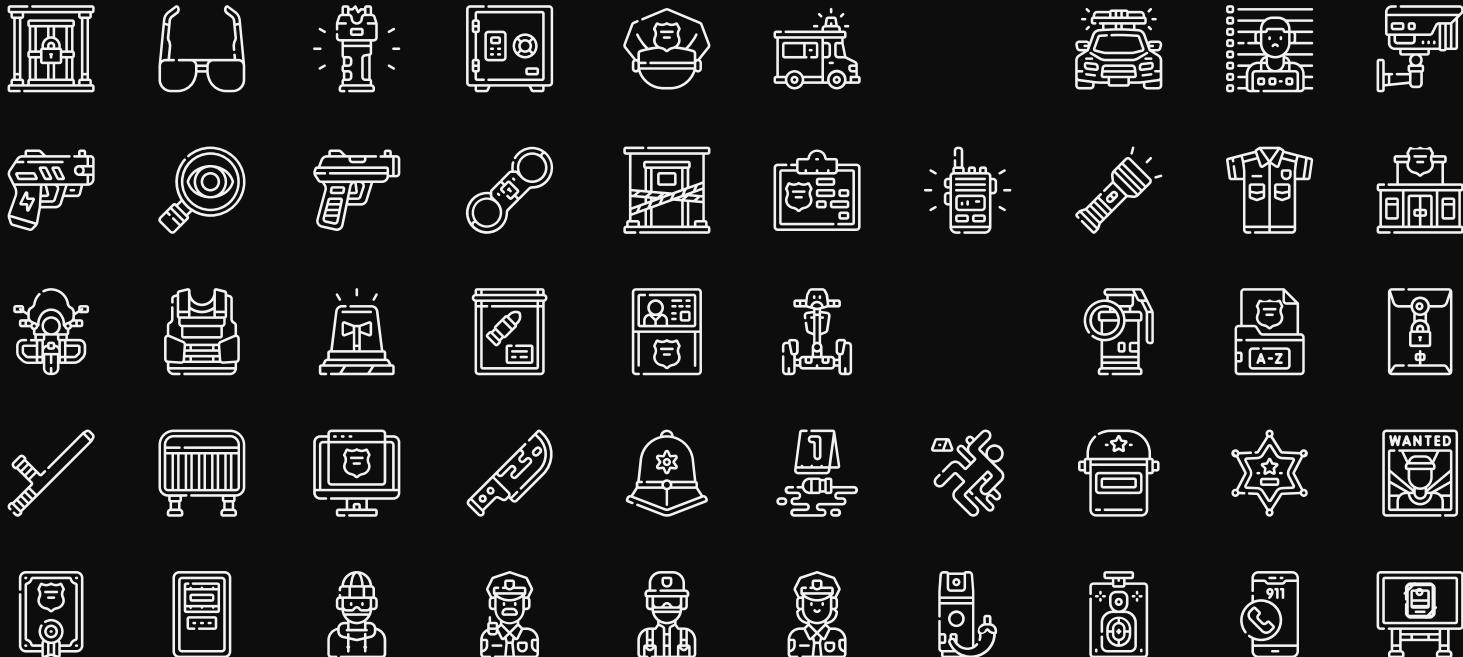
3.

**With sufficient information ,
terrorism could be erased
from the face of earth.**





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