

**Department of Computer Science and Engineering**  
**National Institute of Technology Warangal**

DBMS PROJECT :

TEHSILDAR MANAGEMENT SYSTEM



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## **Introduction -**

The Tehsildar is the most important government functionary in the Taluk. He is immediately subordinate to the Assistant Commissioner.

The Tahsildar is responsible for the collection of land revenue and seeing that the village Accountants and Revenue inspectors in his charge work efficiently and keep the village records up-to-date. Managing the data related to this administrative unit is a very crucial part of running the tehsil. So we need an efficient database to manage this data.

## **1. Tehsil :**

It is a subdistrict of the area within a district including the designated populated place that serves as its administrative center.

A tehsildar manages all the administrative data of a group of villages from the records of the arms licenses to the population data.

## **2. Land Records:**

Land records are required to manage the information about land plots in a administrative unit.

## **3. Land Owners:**

It contains information about people who owns land in villages, their financial data and personal information.

## **4. Arms:**

It contains information about arms owned by people in the areas of a tehsil.

## **5. Population:**

It contains personal information about all people living in the Tehsil.

## **6. Revenue:**

A tehsil has various types of commercial properties and managing the data of the revenue being generated in that. It contains information about how much people revenue is being generated in the tehsil by various sources.

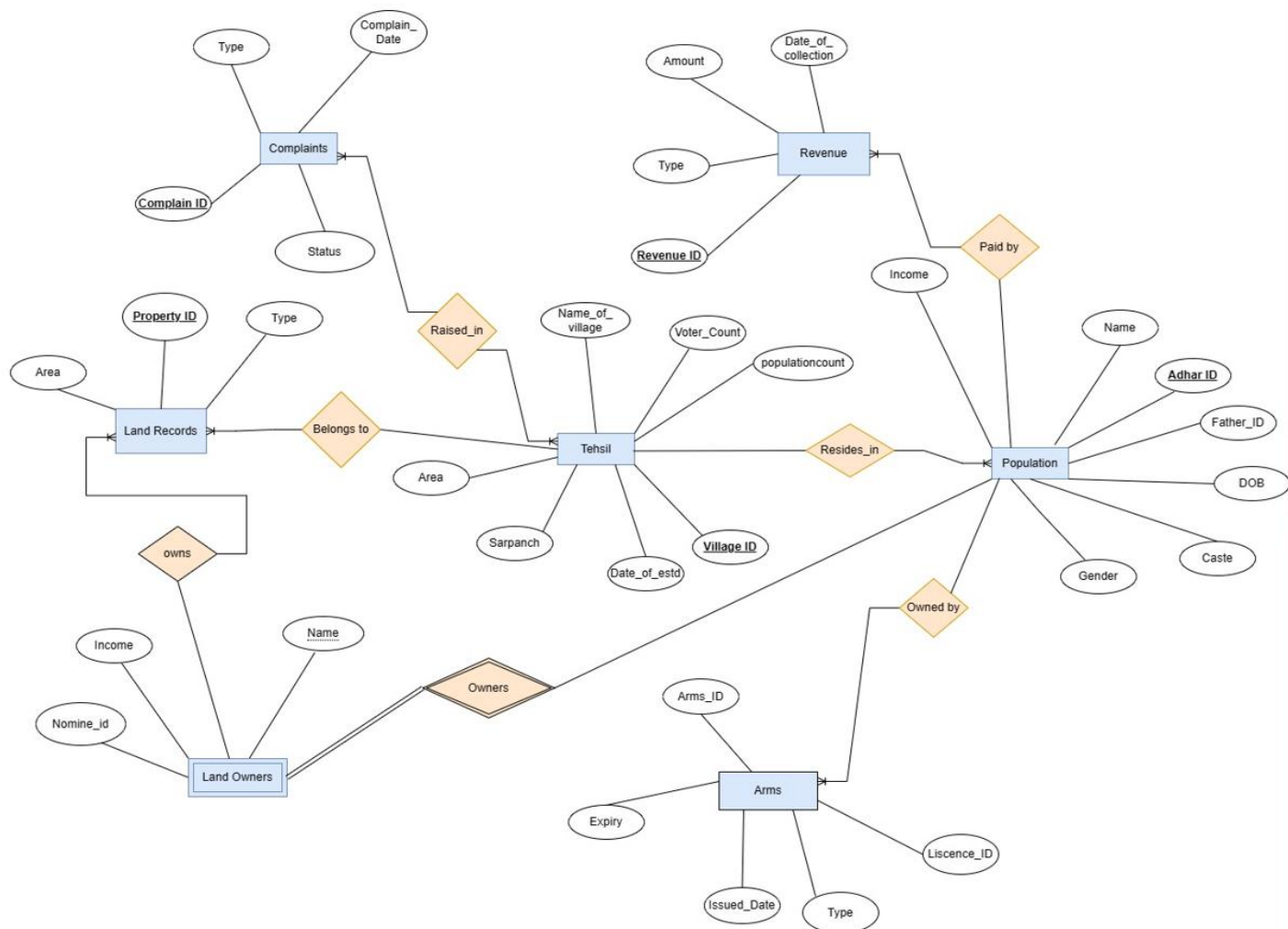
## **7. Complaints:**

Every administrative area has some sort of difficulties being faced by the people living in that area. This table contains information about complaints issued by people in tehsil, status of complaints whether they are solved or not.

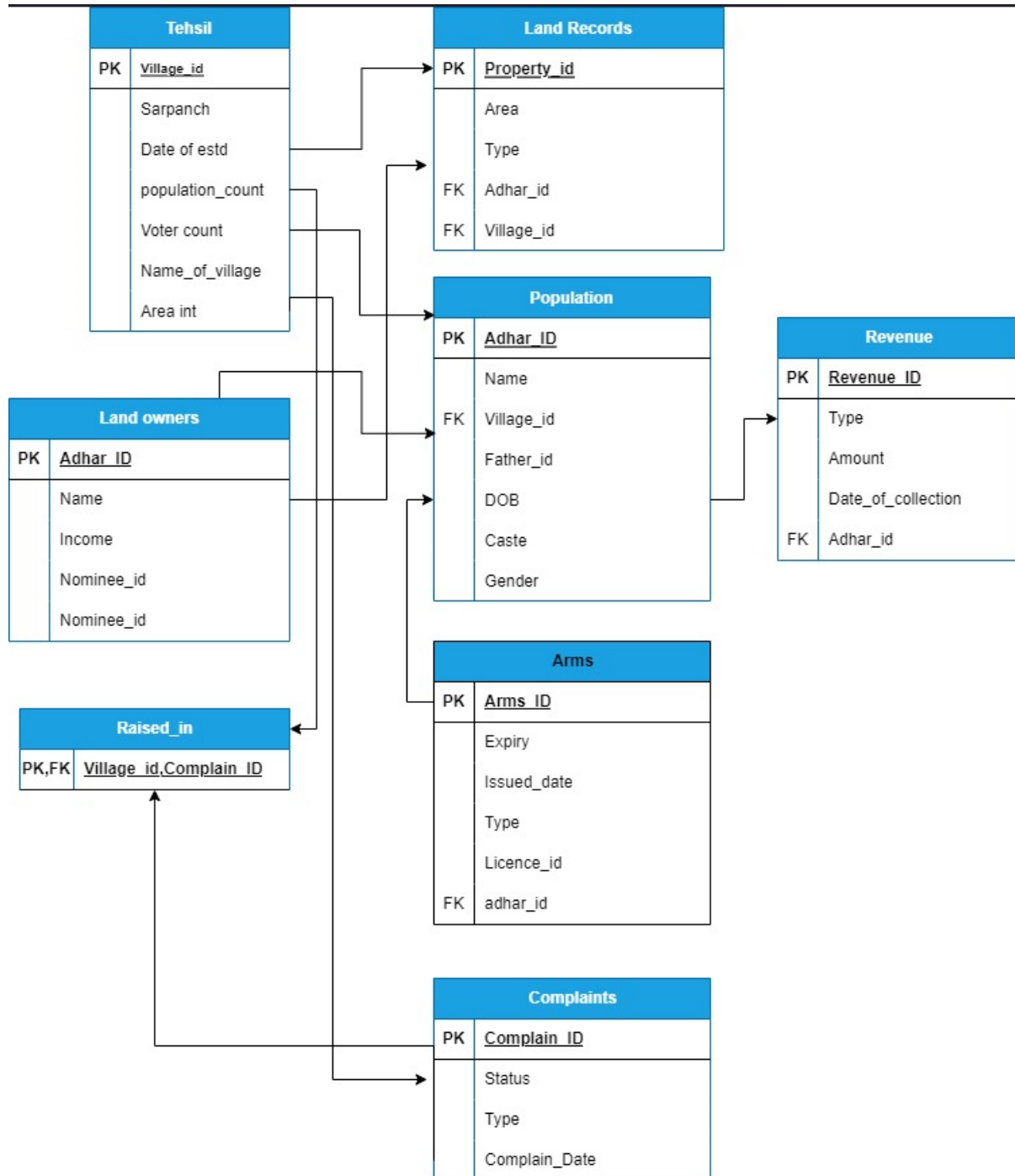
## *Entities:*

1. Tehsil
2. Land records
3. Land owners
4. Arms
5. Population
6. Complaints
7. Revenue

## **ENTITY RELATIONSHIP MODEL:**



## RELATIONAL SCHEMA:



### **Explanation of ER diagram :**

- Tehsil----<Belongs\_to>----Land records:

In this **Belongs\_to** relation is **one to many** type of relation as there can be more than one Land plots in a village of a tehsil but vice versa doesn't work.

- Tehsil----<Resides\_in>----Population:

In this **Resides\_in** relation is a **one to many** type of relation as A village has a large number of people living in it, but a person cannot have more than one residential addresses.

- Population----<Owned\_by>----Arms:

In this **Owned\_by** relation is a **one to many** type of relation as people can have more than one weapon but a weapon cannot be owned by more than one person.

- Population----<Paid\_by>----revenue:

In this **Paid\_by** relation is a **one to many** type of relation as A person might be paying taxes to the state in more than one ways.

- Tehsil-----<Raised\_in>-----Complaints:

This is **many to many** relationships because a type of complain can be issued by more than one villages and there would also be the case in which people issued same complaints

- Land owners-----<owns>-----Land records

Here the **Owns** relation is a **one to many** type of relation as a person can own a number of properties.

- Land owners-----<Owners>-----Population

Here Land **owners** is a Weak Entity as it doesn't have a primary key of its own. The relation hers is **one to one**.



## **Functional Dependencies and Normalization:**

### **Tehsil:**

#### **Village\_id->**

{Area,Name\_of\_village, voter\_count , Populationcount,Date\_of\_estd,Sarpanch}

**Primary key** : Village\_id

This Table is in BCNF normal form as Village\_id determines all attributes

### **Population:**

**Adhar\_id->** {Name, Father\_id, DOB, Caste,Gender ,Income}

**Primary key** : Adhar\_id

This Table is in BCNF normal form as Adhar\_id determines all attributes

### **Revenue:**

**Revenue\_id ->** {Type, Amount, Date\_of\_collection}

**Primary key** : Revenue\_id

This Table is in **BCNF** normal form as Revenue\_id determines the all attributes.

### **Arms :**

**Arms\_id ->** {Expiry, Issued\_date, Type, Licence\_id }

This Table is in **BCNF normal form** as Arms\_id determines all attributes.

**Primary key** : Arms\_ID

### **Land\_Owners :**

**Adhar\_id** -> {Name,Income,Nominee\_id}

**Primary key** : Adhar\_id (referenced from population relation)

This Table is in **BCNF normal form** as Adhar\_id determines all attributes

## **Land Records:**

**Property\_id** -> {Area,Type}

Here Propert\_ID determines all the attributes so this table is in **BCNF normal form**.

## **Complaints :**

**Complain\_id** -> {status, type, Complain\_date}

**Primary key** : Complain\_id

This Table is in **BCNF normal form** as Complain\_id determines all attributes

# SQL Code :

## CREATE TABLE TEHSIL(

AREA INT,

SARPANCH VARCHAR(20),

DATE\_OF\_ESTD DATE,

VILLAGE\_ID VARCHAR(20),

POPULATION\_COUNT INT NOT NULL,

VOTER\_COUNT INT,

NAME\_OF\_VILLAGE VARCHAR(20),

PRIMARY KEY(VILLAGE\_ID)

);

INSERT INTO TEHSIL VALUES(5,'Rajeshwari Singh', '01-01-1923', 'V001',  
1000, 800, 'Chakradharpur');

INSERT INTO TEHSIL VALUES (92145, 'Mukesh Patel', '15-05-1954', 'V002',  
1500, 1200, 'Aurangabad');

INSERT INTO TEHSIL VALUES (637891, 'Sunita Devi', '10-02-1987', 'V003', 800,  
600, 'Nawada');

INSERT INTO TEHSIL VALUES (24610, 'Manish Sharma', '01-01-1954', 'V004',  
2000, 1600, 'Himmatnagar');

INSERT INTO TEHSIL VALUES (793456, 'Kavita Singh', '20-11-1998', 'V005',  
1200, 900, 'Lakhisarai');

INSERT INTO TEHSIL VALUES (465218, 'Alok Gupta', '03-07-1976', 'V006',  
900, 700, 'Bhagalpur');

INSERT INTO TEHSIL VALUES (8534, 'Priya Mishra', '20-03-1949', 'V007',  
2500, 2000, 'Chhapra');

INSERT INTO TEHSIL VALUES (319876, 'Vikram Singh', '01-09-1980', 'V008',

1800, 1500, 'Jhansi');

INSERT INTO TEHSIL VALUES (542719, 'Rohit Kumar', '01-07-1989', 'V009', 1100, 800, 'Buxar');

INSERT INTO TEHSIL VALUES (56435, 'Sarita Devi', '13-05-1944', 'V010', 1400, 1100, 'Samastipur');

	AREA	SARPANCH	DATE_OF_ESTD	VILLAGE_ID	POPULATION_COUNT	VOTER_COUNT	NAME_OF_VILLAGE
1	5	Rajeshwari Singh	01-01-23	V001	1000	800	Chakradharpur
2	92145	Mukesh Patel	15-05-54	V002	1500	1200	Aurangabad
3	637891	Sunita Devi	10-02-87	V003	800	600	Nawada
4	24610	Manish Sharma	01-01-54	V004	2000	1600	Himmatnagar
5	793456	Kavita Singh	20-11-98	V005	1200	900	Lakhisarai
6	465218	Alok Gupta	03-07-76	V006	900	700	Bhagalpur
7	8534	Priya Mishra	20-03-49	V007	2500	2000	Chhapra
8	319876	Vikram Singh	01-09-80	V008	1800	1500	Jhansi
9	542719	Rohit Kumar	01-07-89	V009	1100	800	Buxar
10	56435	Sarita Devi	13-05-44	V010	1400	1100	Samastipur

## CREATE TABLE POPULATION(

NAME VARCHAR(20),

ADHAR\_ID VARCHAR(20) NOT NULL,

VILLAGE\_ID VARCHAR(20),

FATHER\_ID VARCHAR(20),

DOB DATE,

CASTE VARCHAR(20),

GENDER VARCHAR(20),

INCOME INT,

PRIMARY KEY(ADHAR\_ID),

FOREIGN KEY(VILLAGE\_ID) REFERENCES TEHSIL);

INSERT INTO POPULATION VALUES ('Rajesh', 'ABC123456789', 'V001', 'XYZ123456789', '01-01-1990', 'SC', 'Male', 50000);

INSERT INTO POPULATION VALUES('Ritu', 'DEF234567890', 'V002', 'PQR234567890', '05-04-1985', 'ST', 'Female', 75000);

INSERT INTO POPULATION VALUES('Ritu', 'DEF234567890', 'V002', 'PQR234567890', '05-04-1985', 'ST', 'Female', 75000);

INSERT INTO POPULATION VALUES('Suresh', 'GHI345678901', 'V003', 'ABC345678901', '10-07-1992', 'OBC', 'Male', 60000);

INSERT INTO POPULATION VALUES('Riya', 'JKL456789012', 'V004', 'DEF456789012', '15-10-1980', 'SC', 'Female', 80000);

INSERT INTO POPULATION VALUES('Vikas', 'MNO567890123', 'V005', 'GHI567890123', '20-12-1987', 'General', 'Male', 55000);

INSERT INTO POPULATION VALUES('Pooja', 'PQR678901234', 'V006', 'JKL678901234', '25-03-1995', 'ST', 'Female', 40000);

INSERT INTO POPULATION VALUES('Alok', 'STU789012345', 'V007', 'MNO789012345', '30-06-1982', 'OBC', 'Male', 65000);

INSERT INTO POPULATION VALUES('Sakshi', 'VWX890123456', 'V008', 'PQR890123456', '02-09-1998', 'General', 'Female', 70000);

INSERT INTO POPULATION VALUES('Amit', 'YZA901234567', 'V009', 'STU901234567', '07-12-1989', 'SC', 'Male', 75000);

INSERT INTO POPULATION VALUES('Divya', 'BCD012345678', 'V010', 'VWX012345678', '14-02-1991', 'General', 'Female', 50000);

INSERT INTO POPULATION VALUES('Rahul', 'EFG123456789', 'V001', 'YZA123456789', '18-05-1993', 'OBC', 'Male', 60000);

INSERT INTO POPULATION VALUES('Neeraj', 'HIJ234567890', 'V002', 'BCD234567890', '22-08-1984', 'General', 'Male', 45000);

INSERT INTO POPULATION VALUES('Priya', 'KLM345678901', 'V003', 'EFG345678901', '27-11-1996', 'SC', 'Female', 55000);

INSERT INTO POPULATION VALUES('Rajni', 'NOP456789012', 'V004', 'HIJ456789012', '03-02-1986', 'ST', 'Female', 70000);

INSERT INTO POPULATION VALUES('Rakesh', 'QRS567890123', 'V005', 'KLM567890123', '08-06-1990', 'OBC', 'Male', 80000);

INSERT INTO POPULATION VALUES('Suman', 'TUV678901234', 'V006', 'NOP678901234', '13-09-1988', 'General', 'Female', 65000);

INSERT INTO POPULATION VALUES('Ankit', 'WXY789012345', 'V007', 'QRS789012345', '17-12-1992', 'SC', 'Male', 75000);

INSERT INTO POPULATION VALUES('John ', 'A123456789', 'V001', 'B123456789', '01-01-1980', 'General', 'Male', 50000);

INSERT INTO POPULATION VALUES('Jane ', 'A234567890', 'V002', 'B234567890', '02-02-1985', 'General', 'Female', 60000);

INSERT INTO POPULATION VALUES('Alice Smith', 'A345678901', 'V003', 'B345678901', '03-03-1990', 'SC', 'Female', 70000);

	NAME	ADHAR_ID	VILLAGE_ID	FATHER_ID	DOB	CASTE	GENDER	INCOME
1	Rajesh	ABC123456789	V001	XYZ123456789	01-01-90	SC	Male	50000
2	Ritu	DEF234567890	V002	PQR234567890	05-04-85	ST	Female	75000
3	Suresh	GHI345678901	V003	ABC345678901	10-07-92	OBC	Male	60000
4	Riya	JKL456789012	V004	DEF456789012	15-10-80	SC	Female	80000
5	Vikas	MNO567890123	V005	GHI567890123	20-12-87	General	Male	55000
6	Pooja	PQR678901234	V006	JKL678901234	25-03-95	ST	Female	40000
7	Alok	STU789012345	V007	MNO789012345	30-06-82	OBC	Male	65000
8	Sakshi	VWX890123456	V008	PQR890123456	02-09-98	General	Female	70000
9	Amit	YZA901234567	V009	STU901234567	07-12-89	SC	Male	75000
10	Divya	BCD012345678	V010	VWX012345678	14-02-91	General	Female	50000
11	Rahul	EFG123456789	V001	YZA123456789	18-05-93	OBC	Male	60000
12	Neeraj	HIJ234567890	V002	BCD234567890	22-08-84	General	Male	45000
13	Priya	KLM345678901	V003	EFG345678901	27-11-96	SC	Female	55000
14	Rajni	NOP456789012	V004	HIJ456789012	03-02-86	ST	Female	70000
15	Rakesh	QRS567890123	V005	KLM567890123	08-06-90	OBC	Male	80000
16	Suman	TUV678901234	V006	NOP678901234	13-09-88	General	Female	65000
17	Ankit	WXY789012345	V007	QRS789012345	17-12-92	SC	Male	75000
18	John	A123456789	V001	B123456789	01-01-80	General	Male	50000
19	Jane	A234567890	V002	B234567890	02-02-85	General	Female	60000
20	Alice Smith	A345678901	V003	B345678901	03-03-90	SC	Female	70000

## **CREATE TABLE ARMS(**

ARMS\_ID VARCHAR(20) NOT NULL,

EXPIRY DATE,

ISSUED\_DATE DATE,

TYPE VARCHAR(20),

LICENCE\_ID VARCHAR(20),

ADHAR\_ID VARCHAR(20) NOT NULL,

PRIMARY KEY(ARMS\_ID),

FOREIGN KEY(ADHAR\_ID) REFERENCES POPULATION

)

INSERT INTO ARMS VALUES ('ARM001', '01-01-2025', '01-01-2020', 'Pistol', 'LIC001', 'JKL456789012');

INSERT INTO ARMS VALUES ('ARM002', '01-01-2025', '02-02-2021', 'Rifle', 'LIC002', 'MNO567890123');

INSERT INTO ARMS VALUES ('ARM003', '01-01-2025', '03-03-2019', 'Shotgun', 'LIC003', 'PQR678901234');

INSERT INTO ARMS VALUES ('ARM004', '01-01-2025', '04-04-2018', 'Pistol', 'LIC004', 'STU789012345');

INSERT INTO ARMS VALUES ('ARM005', '01-01-2025', '05-05-2020', 'Rifle', 'LIC005', 'VWX890123456');

INSERT INTO ARMS VALUES ('ARM006', '01-01-2025', '06-06-2021', 'Shotgun', 'LIC006', 'YZA901234567');

INSERT INTO ARMS VALUES ('ARM007', '01-01-2025', '07-07-2019', 'Pistol', 'LIC007', 'BCD012345678');

INSERT INTO ARMS VALUES ('ARM008', '01-01-2025', '08-08-2020', 'Rifle', 'LIC008', 'EFG123456789');

INSERT INTO ARMS VALUES ('ARM009', '01-01-2025', '09-09-2018', 'Shotgun', 'LIC009', 'ABC123456789');

INSERT INTO ARMS VALUES ('ARM010', '01-01-2025', '10-10-2021', 'Pistol',

'LIC010', 'DEF234567890');

INSERT INTO ARMS VALUES ('ARM011', '01-01-2025', '11-11-2019', 'Rifle',  
'LIC011', 'GHI345678901');

INSERT INTO ARMS VALUES ('ARM012', '01-01-2025', '12-12-2017', 'Shotgun',  
'LIC012', 'JKL456789012');

INSERT INTO ARMS VALUES ('ARM013', '01-01-2025', '13-01-2022', 'Pistol',  
'LIC013', 'MNO567890123');

INSERT INTO ARMS VALUES ('ARM014', '01-01-2025', '14-02-2020', 'Rifle',  
'LIC014', 'PQR678901234');

INSERT INTO ARMS VALUES ('ARM015', '01-01-2025', '15-03-2018', 'Shotgun',  
'LIC015', 'STU789012345');

INSERT INTO ARMS VALUES ('ARM016', '01-01-2025', '16-04-2021', 'Pistol',  
'LIC016', 'VWX890123456');

INSERT INTO ARMS VALUES ('ARM017', '01-01-2025', '17-05-2019', 'Rifle',  
'LIC017', 'YZA901234567');

INSERT INTO ARMS VALUES ('ARM018', '01-01-2025', '18-06-2017', 'Shotgun',  
'LIC018', 'BCD012345678');

INSERT INTO ARMS VALUES ('ARM019', '01-01-2025', '19-07-2020', 'Pistol',  
'LIC019', 'EFG123456789');

INSERT INTO ARMS VALUES ('ARM020', '01-01-2025', '20-08-2018', 'Rifle',  
'LIC020', 'ABC123456789');



	ARMS_ID	EXPIRY	ISSUED_DATE	TYPE	LICENCE_ID	ADHAR_ID
1	ARM001	01-01-25	01-01-20	Pistol	LIC001	JKL456789012
2	ARM002	01-01-25	02-02-21	Rifle	LIC002	MNO567890123
3	ARM003	01-01-25	03-03-19	Shotgun	LIC003	PQR678901234
4	ARM004	01-01-25	04-04-18	Pistol	LIC004	STU789012345
5	ARM005	01-01-25	05-05-20	Rifle	LIC005	VWX890123456
6	ARM006	01-01-25	06-06-21	Shotgun	LIC006	YZA901234567
7	ARM007	01-01-25	07-07-19	Pistol	LIC007	BCD012345678
8	ARM008	01-01-25	08-08-20	Rifle	LIC008	EFG123456789
9	ARM009	01-01-25	09-09-18	Shotgun	LIC009	ABC123456789
10	ARM010	01-01-25	10-10-21	Pistol	LIC010	DEF234567890
11	ARM011	01-01-25	11-11-19	Rifle	LIC011	GHI345678901
12	ARM012	01-01-25	12-12-17	Shotgun	LIC012	JKL456789012
13	ARM013	01-01-25	13-01-22	Pistol	LIC013	MNO567890123
14	ARM014	01-01-25	14-02-20	Rifle	LIC014	PQR678901234
15	ARM015	01-01-25	15-03-18	Shotgun	LIC015	STU789012345
16	ARM016	01-01-25	16-04-21	Pistol	LIC016	VWX890123456
17	ARM017	01-01-25	17-05-19	Rifle	LIC017	YZA901234567
18	ARM018	01-01-25	18-06-17	Shotgun	LIC018	BCD012345678
19	ARM019	01-01-25	19-07-20	Pistol	LIC019	EFG123456789
20	ARM020	01-01-25	20-08-18	Rifle	LIC020	ABC123456789

```

CREATE TABLE REVENUE(
    REVENUE_ID VARCHAR(20) NOT NULL,
    TYPE VARCHAR(20),
    AMOUNT INT,
    DATE_OF_COLLECTION DATE,
    ADHAR_ID VARCHAR(20) NOT NULL,
    PRIMARY KEY(REVENUE_ID),
    FOREIGN KEY(ADHAR_ID) REFERENCES POPULATION
);

```

INSERT INTO REVENUE VALUES ('R1A34', 'Income tax', 100000, '10-01-2022', 'GHI345678901');

INSERT INTO REVENUE VALUES ('R2B45', 'Property tax', 50000, '15-01-2022', 'JKL456789012');

INSERT INTO REVENUE VALUES ('R3C56', 'Agri produce tax', 75000, '20-01-2022', 'MNO567890123');

INSERT INTO REVENUE VALUES ('R4D67', 'Wealth tax', 25000, '25-01-2022', 'PQR678901234');

INSERT INTO REVENUE VALUES ('R5E78', 'Excise tax', 1000000, '02-02-2022', 'STU789012345');

INSERT INTO REVENUE VALUES ('R6F89', 'Corporate tax', 150000, '07-02-2022', 'VWX890123456');

INSERT INTO REVENUE VALUES ('R7G90', 'Lottery gambling revenue', 500000, '12-02-2022', 'YZA901234567');

INSERT INTO REVENUE VALUES ('R8H01', 'Miscellaneous tax', 10000, '17-02-2022', 'BCD012345678');

INSERT INTO REVENUE VALUES ('R9I12', 'Income tax', 125000, '22-02-2022', 'GHI345678901');

INSERT INTO REVENUE VALUES ('R10J23', 'Property tax', 75000, '27-02-2022', 'JKL456789012');

INSERT INTO REVENUE VALUES ('R11K34', 'Agri produce tax', 100000, '05-03-2022', 'MNO567890123');

INSERT INTO REVENUE VALUES ('R12L45', 'Wealth tax', 50000, '10-03-2022', 'PQR678901234');

INSERT INTO REVENUE VALUES ('R13M56', 'Excise tax', 2000000, '15-03-2022', 'STU789012345');

INSERT INTO REVENUE VALUES ('R14N67', 'Corporate tax', 200000, '20-03-2022', 'VWX890123456');

INSERT INTO REVENUE VALUES ('R15O78', 'Lottery gambling revenue', 750000, '25-03-2022', 'YZA901234567');

INSERT INTO REVENUE VALUES ('R16P89', 'Miscellaneous tax', 15000, '01-04-2022', 'BCD012345678');

```
INSERT INTO REVENUE VALUES ('R17Q90', 'Income tax', 150000, '06-04-2022', 'GHI345678901');
```

```
INSERT INTO REVENUE VALUES ('R18R01', 'Property tax', 100000, '11-04-2022', 'JKL456789012');
```

```
INSERT INTO REVENUE VALUES ('R19S12', 'Agri produce tax', 125000, '16-04-2022', 'MNO567890123');
```

```
INSERT INTO REVENUE VALUES ('R20T23', 'Wealth tax', 75000, '21-04-2022', 'PQR678901234');
```

	REVENUE_ID	TYPE	AMOUNT	DATE_OF_COLLECTION	ADHAR_ID
1	R1A34	Income tax	100000	10-01-22	GHI345678901
2	R2B45	Property tax	50000	15-01-22	JKL456789012
3	R3C56	Agri produce tax	75000	20-01-22	MNO567890123
4	R4D67	Wealth tax	25000	25-01-22	PQR678901234
5	R5E78	Excise tax	1000000	02-02-22	STU789012345
6	R6F89	Corporate tax	150000	07-02-22	VWX890123456
7	R8H01	Miscellaneous tax	10000	17-02-22	BCD012345678
8	R9I12	Income tax	125000	22-02-22	GHI345678901
9	R10J23	Property tax	75000	27-02-22	JKL456789012
10	R11K34	Agri produce tax	100000	05-03-22	MNO567890123
11	R12L45	Wealth tax	50000	10-03-22	PQR678901234
12	R13M56	Excise tax	2000000	15-03-22	STU789012345
13	R14N67	Corporate tax	200000	20-03-22	VWX890123456
14	R16P89	Miscellaneous tax	15000	01-04-22	BCD012345678
15	R17Q90	Income tax	150000	06-04-22	GHI345678901
16	R18R01	Property tax	100000	11-04-22	JKL456789012
17	R19S12	Agri produce tax	125000	16-04-22	MNO567890123
18	R20T23	Wealth tax	75000	21-04-22	PQR678901234

**CREATE TABLE COMPLAINTS(**

COMPLAIN\_ID VARCHAR(20) NOT NULL,

STATUS VARCHAR(20),

TYPE VARCHAR(20),

COMPLAIN\_DATE DATE,

PRIMARY KEY(COMPLAIN\_ID)

);

INSERT INTO COMPLAINTS VALUES ('CMP01', 'Pending', 'Garbage collection', '01-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP02', 'Resolved', 'Water supply', '05-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP03', 'Pending', 'Street lights', '10-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP04', 'Resolved', 'Road repair', '15-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP05', 'Pending', 'Public transport', '20-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP06', 'Pending', 'Sanitation', '25-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP07', 'Resolved', 'Electricity supply', '30-04-2022');

INSERT INTO COMPLAINTS VALUES ('CMP08', 'Pending', 'Healthcare', '05-05-2022');

INSERT INTO COMPLAINTS VALUES ('CMP09', 'Resolved', 'Police', '10-05-2022');

INSERT INTO COMPLAINTS VALUES ('CMP010', 'Pending', 'Animal control', '15-05-2022');

INSERT INTO COMPLAINTS VALUES ('CMP011', 'Pending', 'Noise pollution', '20-05-2022');

INSERT INTO COMPLAINTS VALUES ('CMP012', 'Resolved', 'Fire department', '25-05-2022');

INSERT INTO COMPLAINTS VALUES ('CMP013', 'Pending', 'Municipal services', '30-05-2022');

INSERT INTO COMPLAINTS VALUES ('CMP014', 'Resolved', 'Public facilities', '05-06-2022');

INSERT INTO COMPLAINTS VALUES ('CMP015', 'Pending', 'Traffic', '10-06-2022');

INSERT INTO COMPLAINTS VALUES ('CMP016', 'Resolved', 'Waste management', '15-06-2022');

INSERT INTO COMPLAINTS VALUES ('CMP017', 'Pending', 'Schools', '20-06-

2022');

INSERT INTO COMPLAINTS VALUES ('CMP018', 'Resolved', 'Housing', '25-06-2022');

INSERT INTO COMPLAINTS VALUES ('CMP019', 'Pending', 'Environment', '30-06-2022');

INSERT INTO COMPLAINTS VALUES ('CMP020', 'Resolved', 'Disaster management', '05-07-2022');

	COMPLAIN_ID	STATUS	TYPE	COMPLAIN_DATE
1	CMP01	Pending	Garbage collection	01-04-22
2	CMP02	Resolved	Water supply	05-04-22
3	CMP03	Pending	Street lights	10-04-22
4	CMP04	Resolved	Road repair	15-04-22
5	CMP05	Pending	Public transport	20-04-22
6	CMP06	Pending	Sanitation	25-04-22
7	CMP07	Resolved	Electricity supply	30-04-22
8	CMP08	Pending	Healthcare	05-05-22
9	CMP09	Resolved	Police	10-05-22
10	CMP010	Pending	Animal control	15-05-22
11	CMP011	Pending	Noise pollution	20-05-22
12	CMP012	Resolved	Fire department	25-05-22
13	CMP013	Pending	Municipal services	30-05-22
14	CMP014	Resolved	Public facilities	05-06-22
15	CMP015	Pending	Traffic	10-06-22
16	CMP016	Resolved	Waste management	15-06-22
17	CMP017	Pending	Schools	20-06-22
18	CMP018	Resolved	Housing	25-06-22
19	CMP019	Pending	Environment	30-06-22
20	CMP020	Resolved	Disaster management	05-07-22

## **CREATE TABLE RAISED\_IN**

```
(  
    VILLAGE_ID VARCHAR(20) NOT NULL,  
    COMPLAIN_ID VARCHAR(20) NOT NULL,  
    FOREIGN KEY(VILLAGE_ID) REFERENCES TEHSIL,  
    FOREIGN KEY(COMPLAIN_ID) REFERENCES COMPLAINTS,  
    PRIMARY KEY(VILLAGE_ID,COMPLAIN_ID)  
);
```

```
INSERT INTO raised_in VALUES ('V001', 'CMP01');
```

```
INSERT INTO raised_in VALUES('V001', 'CMP015');
```

```
INSERT INTO raised_in VALUES('V001', 'CMP019');
```

```
INSERT INTO raised_in VALUES('V002', 'CMP010');
```

```
INSERT INTO raised_in VALUES('V002', 'CMP012');
```

```
INSERT INTO raised_in VALUES('V002', 'CMP018');
```

```
INSERT INTO raised_in VALUES('V003', 'CMP013');
```

```
INSERT INTO raised_in VALUES('V003', 'CMP016');
```

```
INSERT INTO raised_in VALUES('V003', 'CMP017');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP01');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP02');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP03');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP04');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP05');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP06');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP07');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP08');
```

```
INSERT INTO raised_in VALUES('V004', 'CMP09');
```

```
INSERT INTO raised_in VALUES('V008', 'CMP015');
```

```
INSERT INTO raised_in VALUES('V005', 'CMP011');
```

```
INSERT INTO raised_in VALUES('V005', 'CMP014');
```

```
INSERT INTO raised_in VALUES('V005', 'CMP018');
```

```
INSERT INTO raised_in VALUES('V006', 'CMP02');
```

```
INSERT INTO raised_in VALUES('V009', 'CMP05');
```

```
INSERT INTO raised_in VALUES('V006', 'CMP08');
```

```
INSERT INTO raised_in VALUES('V007', 'CMP03');
```

```
INSERT INTO raised_in VALUES('V007', 'CMP07');
```

```
INSERT INTO raised_in VALUES('V010', 'CMP09');
```

```
INSERT INTO raised_in VALUES('V007', 'CMP016');
```



	↕ VILLAGE_ID	↕ COMPLAIN_ID
1	V001	CMP01
2	V001	CMP015
3	V001	CMP019
4	V002	CMP010
5	V002	CMP012
6	V002	CMP018
7	V003	CMP013
8	V003	CMP016
9	V003	CMP017
10	V004	CMP01
11	V004	CMP02
12	V004	CMP03
13	V004	CMP04
14	V004	CMP05
15	V004	CMP06
16	V004	CMP07
17	V004	CMP08
18	V004	CMP09
19	V005	CMP011
20	V005	CMP014
21	V005	CMP018
22	V006	CMP02
23	V006	CMP08
24	V007	CMP016
25	V007	CMP03

26	V007	CMP07
27	V008	CMP015
28	V009	CMP05
29	V010	CMP09



## CREATE TABLE LAND\_OWNERS(

NAME VARCHAR(20),

ADHAR\_ID VARCHAR(20) NOT NULL,

INCOME INT,

NOMINEE\_id VARCHAR(20),

FOREIGN KEY(ADHAR\_ID) REFERENCES POPULATION,

PRIMARY KEY(ADHAR\_ID)

);

INSERT INTO LAND\_OWNERS VALUES ('Rajesh', 'ABC123456789', 50000, 'KLM345678901');

INSERT INTO LAND\_OWNERS VALUES('Ritu', 'DEF234567890', 75000, 'NOP456789012');

INSERT INTO LAND\_OWNERS VALUES('Suresh', 'GHI345678901', 60000, 'QRS567890123');

INSERT INTO LAND\_OWNERS VALUES('Riya', 'JKL456789012', 80000, 'TUV678901234');

INSERT INTO LAND\_OWNERS VALUES('Vikas', 'MNO567890123', 55000, 'WXY789012345');

INSERT INTO LAND\_OWNERS VALUES('Pooja', 'PQR678901234', 40000, 'KLM345678901');

INSERT INTO LAND\_OWNERS VALUES('Alok', 'STU789012345', 65000, 'NOP456789012');

INSERT INTO LAND\_OWNERS VALUES('Sakshi', 'VWX890123456', 70000, 'QRS567890123');

	NAME	ADHAR_ID	INCOME	NOMINEE_ID
1	Rajesh	ABC123456789	50000	KLM345678901
2	Ritu	DEF234567890	75000	NOP456789012
3	Suresh	GHI345678901	60000	QRS567890123
4	Riya	JKL456789012	80000	TUV678901234
5	Vikas	MNO567890123	55000	WXY789012345
6	Pooja	PQR678901234	40000	KLM345678901
7	Alok	STU789012345	65000	NOP456789012
8	Sakshi	VWX890123456	70000	QRS567890123

## CREATE TABLE LAND\_RECORDS(

PROPERTY\_ID VARCHAR(20) NOT NULL,

AREA INT,

TYPE VARCHAR(20),

ADHAR\_ID VARCHAR(20)NOT NULL,

VILLAGE\_ID VARCHAR(20),

FOREIGN KEY(ADHAR\_ID) REFERENCES LAND\_OWNERS,

FOREIGN KEY(VILLAGE\_ID) REFERENCES TEHSIL,

PRIMARY KEY(PROPERTY\_ID)

);

INSERT INTO LAND\_RECORDS VALUES ('P001', 1000, 'Residential', 'ABC123456789', 'V002');

INSERT INTO LAND\_RECORDS VALUES('P002', 2000, 'Commercial', 'DEF234567890', 'V003');

INSERT INTO LAND\_RECORDS VALUES('P003', 3000, 'Industrial', 'GHI345678901', 'V004');

```
INSERT INTO LAND_RECORDS VALUES('P004', 4000, 'Agricultural',  
'JKL456789012', 'V005');
```

```
INSERT INTO LAND_RECORDS VALUES ('P005', 5000, 'Recreational',  
'MNO567890123', 'V006');
```

```
INSERT INTO LAND_RECORDS VALUES ('P006', 6000, 'Residential',  
'PQR678901234', 'V007');
```

```
INSERT INTO LAND_RECORDS VALUES('P007', 7000, 'Commercial',  
'STU789012345', 'V008');
```

```
INSERT INTO LAND_RECORDS VALUES('P008', 8000, 'Industrial',  
'VWX890123456', 'V009');
```

```
INSERT INTO LAND_RECORDS VALUES ('P009', 9000, 'Agricultural',  
'ABC123456789', 'V010');
```

```
INSERT INTO LAND_RECORDS VALUES('P010', 10000, 'Recreational',  
'DEF234567890', 'V002');
```

```
INSERT INTO LAND_RECORDS VALUES('P011', 11000, 'Residential',  
'GHI345678901', 'V003');
```

```
INSERT INTO LAND_RECORDS VALUES('P012', 12000, 'Commercial',  
'JKL456789012', 'V004');
```

```
INSERT INTO LAND_RECORDS VALUES ('P013', 13000, 'Industrial',  
'MNO567890123', 'V005');
```

```
INSERT INTO LAND_RECORDS VALUES ('P014', 14000, 'Agricultural',  
'PQR678901234', 'V006');
```

```
INSERT INTO LAND_RECORDS VALUES ('P015', 15000, 'Recreational',  
'STU789012345', 'V007');
```

	PROPERTY_ID	AREA	TYPE	ADHAR_ID	VILLAGE_ID
1	P001	1000	Residential	ABC123456789	V002
2	P002	2000	Commercial	DEF234567890	V003
3	P003	3000	Industrial	GHI345678901	V004
4	P004	4000	Agricultural	JKL456789012	V005
5	P005	5000	Recreational	MNO567890123	V006
6	P006	6000	Residential	PQR678901234	V007
7	P007	7000	Commercial	STU789012345	V008
8	P008	8000	Industrial	VWX890123456	V009
9	P009	9000	Agricultural	ABC123456789	V010
10	P010	10000	Recreational	DEF234567890	V002
11	P011	11000	Residential	GHI345678901	V003
12	P012	12000	Commercial	JKL456789012	V004
13	P013	13000	Industrial	MNO567890123	V005
14	P014	14000	Agricultural	PQR678901234	V006
15	P015	15000	Recreational	STU789012345	V007