

**GRAVEYARD MANAGEMENT SYSTEM**

**GROUP MEMBERS**

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**COURSE NAME: INTRODUCTION TO DATABASE**

**FACULTY NAME: JUENA AHMED NOSHIN**

**SECTION: E1 & E2**

**CONTEN LISTS:**

1. Introduction.
2. Scenario.
3. E-R Diagram.
4. Normalization.
5. Table Creation.
6. Data Insertion.
7. Query Writing.
8. Conclusion.

**Introduction:**

A database management system (DBMS) is system software for creating and managing databases. The DBMS provides users and programmers with a systematic way to create, retrieve, update and manage data. DBMS makes it possible for end users to create, read, update and delete data in a database. The DBMS essentially serves as an interface between the database and end users or application programs, ensuring that data is consistently organized and remains easily accessible.

Our ‘Graveyard Management System’ project is built on the concept of database management system. Our main purpose of the project was to analyze and implement the basic concept of DBMS.

**Scenario:**

In our graveyard management system, the city corporation owns the graveyard. The city corporation is identified by id, name, e\_mail, phone\_number & address. They controls zone officers who are in charge of the graveyard. Zone officer is identified by o\_id, o\_name, o\_address, o\_phone\_number, o\_e\_mail, NID & gender. The zone officer recruits exactly one manager for managing the graveyard. The graveyard is identified by the grvyrd\_id, grvyrd\_name, grvyrd\_area & grvyrd\_address. The manager is identified by the m\_id, m\_name, address, NID, phone\_number, e\_mail, date\_of\_birth, hiredate, salary, blood\_group & gender. The graveyard provides grave for the corps. The grave may known by grave\_id, location & type. The location has two attributes: block & plot. Type has three attributes: adult, young and child. When the manager received a corps from the relative, s/he inputs corps information into system as c\_id, c\_name, NID, address, gender, date\_of\_birth, date\_of \_death & death\_certificate\_no. After that, the system automatically decides the grave for burying the corps. The relative pays the fees to the manager. Relative may identified by r\_name, r\_address and r\_phone\_number. For doing all of this, the manager recruit employees, who are categorized into department. Department can be defined by dept\_id & dept\_name. The employees are identified by emp\_no, emp\_name, address, phone\_number, e\_mail, date\_of\_birth, hiredate, salary, boold\_group & gender. The manager also recruit imam for the ritual process. He is identified by i\_id, i\_name, address, phone\_number, date\_of\_birth, hiredate, salary, boold\_group. The employees helps the imam doing the ritual process.

**NORMALIZATION**

**Employee------\*------Categorize------1------Department**

UNF:

Categorize

Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Salary, Gender, Dept\_ID, Dept\_Name.

1NF:

Phone\_Number & E\_mail are multivalued attribute.

Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Salary, Gender, Dept\_ID, Dept\_Name.

2NF:

1. Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Gender, Salary.
2. Dept\_Name, Dept\_ID.

3NF:

No transitive dependency.

1. Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Gender, Salary.
2. Dept\_Name, Dept\_ID.

Table:

1. Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Salary, Gender, **Dept\_ID**.
2. Dept\_Name, Dept\_ID.

**Manager------1------Recruit------\*------Employee**

UNF:

Recruit

Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Salary, M\_ID, M\_Name, Address, Hiredate, Date\_of\_Birth, NID, Gender, Blood\_Group, Salary, E\_mail, Gender, Phone\_Number.

1NF:

Phone\_Number & E\_mail are multivalued attribute.

Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Gender, Salary, M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

2NF:

1. Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Gender, Salary.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

3NF:

No transitive dependency.

1. Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Gender, Salary.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

Table:

1. Emp\_No, Emp\_Name, NID, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Salary, Gender, **M\_ID**.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

**Manager------1------Manage------1------Graveyard**

UNF:

Manage

GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address, M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

1NF:

Phone\_Number & E\_mail are multivalued attribute.

GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address, M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

2NF:

1. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

3NF:

No transitive dependency.

1. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

Table:

1. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary, **GrvYrDept\_ID**.

**Zone Officer------\*------Recruit------1------Manager**

UNF:

Recruit

O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender, M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

1NF:

Phone\_Number & E\_mail are multivalued attribute.

O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender, M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

2NF:

1. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

3NF:

No transitive dependency.

1. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

Table:

1. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender, **M\_ID**.
2. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.

**City Corporation------1------Own------\*------Graveyard**

UNF:

Own

ID, Name, E\_mail, Phone Number, Address, GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

1NF:

Phone\_Number & E\_mail are multivalued attribute.

ID, Name, E\_mail, Phone Number, Address, GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

2NF:

1. ID, Name, E\_mail, Phone Number, Address.
2. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

3NF:

No transitive dependency.

1. ID, Name, E\_mail, Phone Number, Address.
2. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

Table:

1. ID, Name, E\_mail, Phone Number, Address.
2. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address, **ID**.

**Graveyard------1------Provide------\*------Grave**

UNF:

Provide

Grave\_ID, Block, Plot, Adult, Young, Child, GrvYrd\_ID, GrvYrd\_Name, GrvYrd\_Area, GrvYrd\_Address.

1NF:

No multivalued attribute.

Grave\_ID, Block, Plot, Adult, Young, Child, GrvYrd\_ID, GrvYrd\_Name, GrvYrd\_Area, GrvYrd\_Address.

2NF:

1. Grave\_ID, Block, Plot, Adult, Young, Child.
2. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

3NF:

1. Grave\_ID.
2. Block, Plot.
3. Adult, Young, Child
4. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

**Table:**

1. Grave\_ID, **Loc\_ID**, **Grave\_Size\_ID**, **GrvYrDept\_ID**.
2. Loc\_ID, Block, Plot.
3. Grave\_Size \_ID, Adult, Young, Child.
4. GrvYrDept\_ID, GrvYrDept\_Name, GrvYrd\_Area, GrvYrd\_Address.

**City Corporation------1------Control------\*------Zone Officer**

UNF:

Control

ID, Name, E\_mail, Phone Number, Address, O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender.

1NF:

E\_mail, Phone Number, O\_Address, O\_Phone Number are multivalued attribute.

ID, Name, E\_mail, Phone Number, Address, O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender.

2NF:

1. ID, Name, E\_mail, Phone Number, Address.
2. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender.

3NF:

No transitive dependency.

1. ID, Name, E\_mail, Phone Number, Address.
2. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender.

Table:

1. ID, Name, E\_mail, Phone Number, Address.
2. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender, **ID**.

**Grave------1------Burry------1------Corpse**

UNF:

Burry

Grave\_ID, Block, Plot, Adult, Young, Child, C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

1NF:

No multivalued attribute.

Grave\_ID, Block, Plot, Adult, Young, Child, C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

2NF:

1. Grave\_ID, Block, Plot, Adult, Young, Child.
2. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

3NF:

1. Grave\_ID.
2. Block, Plot.
3. Adult, Young, Child.
4. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

Table:

1. Grave\_ID, **Loc\_ID**, **Grave\_Size**, **C\_ID**.
2. Loc\_ID, Block, Plot.
3. Grave\_Size \_ID, Adult, Young, Child.
4. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

**Manager------1------Receive------\*------Corpse**

UNF:

Receive

M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood Group, Gender, NID, Date\_of\_Birth, Hiredate, C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

1NF:

Phone Number & E\_mail are multivalued attribute.

M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate, C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

2NF:

1. M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate.
2. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

3NF:

No transitive dependency.

1. M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood Group, Gender, NID, Date\_of\_Birth, Hiredate.
2. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.

Table:

1. M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate.
2. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, **M\_ID**.

**Relative------\*------Pays------1------Manager**

UNF:

Pays

M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate, R\_Name, R\_Address, R\_Phone\_No.

1NF:

Phone Number & E\_mail are multivalued attribute.

M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate, R\_Name, R\_Address, R\_Phone\_No.

2NF:

1. M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate.
2. R\_Name, R\_Address, R\_Phone\_No.

3NF:

No transitive dependency.

1. M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood Group, Gender, NID, Date\_of\_Birth, Hiredate.
2. R\_Name, R\_Address, R\_Phone\_No.

Table

1. M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood Group, Gender, NID, Date\_of\_Birth, Hiredate.
2. R\_Name, R\_Address, R\_Phone\_No, **M\_ID**.
3. **M\_ID** , R\_Name.

**Relative------\*------Has------1------Corpse**

UNF:

Has

C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, R\_Name, R\_Address, R\_Phone\_No, R\_Name, R\_Address, R\_Phone\_No.

1NF:

R\_Phone\_No is a multivalued attribute.

C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, R\_Name, R\_Address, R\_Phone\_No, R\_Name, R\_Address, R\_Phone\_No.

2NF:

1. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, R\_Name, R\_Address.
2. R\_Name, R\_Address, R\_Phone\_No, R\_Name, R\_Address, R\_Phone\_No.

3NF:

No transitive dependency.

1. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, R\_Name, R\_Address.
2. R\_Name, R\_Address, R\_Phone\_No, R\_Name, R\_Address, R\_Phone\_No.

Table:

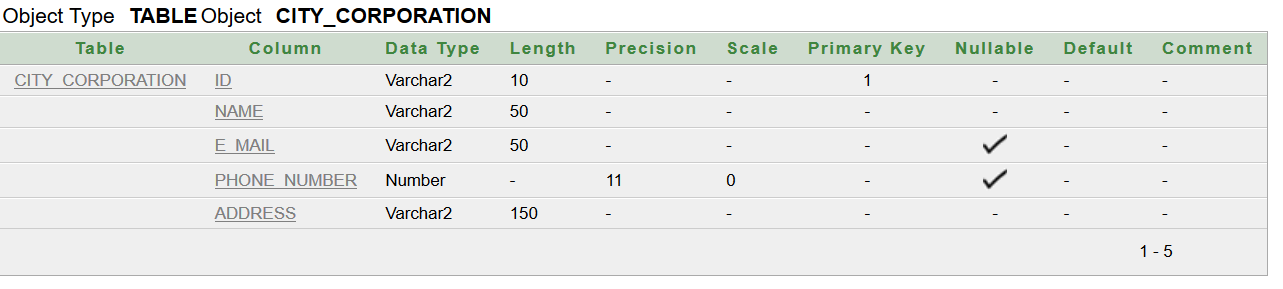
1. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, R\_Name, R\_Address.
2. R\_Name, R\_Address, R\_Phone\_No, R\_Name, R\_Address, R\_Phone\_No, **C\_ID**.
3. **C\_ID**, R\_Name.

**Table Creation**

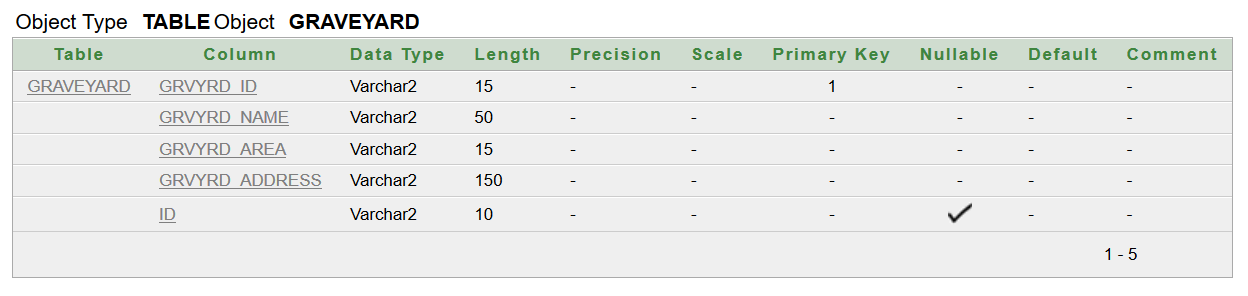
1. ID, Name, E\_mail, Phone Number, Address.
2. GrvYrd\_ID, GrvYrd\_Name, GrvYrd\_Area, GrvYrd\_Address, **ID**.
3. M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary, **GrvYrDept\_ID**.
4. Emp\_No, Emp\_Name, NID Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Gender, Salary, **Dept\_ID**, **M\_ID**.
5. Dept\_ID, Dept\_Name.
6. O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender, **M\_ID**, **ID**.
7. C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender, **M\_ID**.
8. R\_Name, R\_Address, R\_Phone\_No, **M\_ID**, **C\_ID**.
9. **M\_ID** , **C\_ID,** R\_Name.
10. Grave\_ID, **Loc\_ID**, **Grave\_Size\_ID**, **GrvYrd\_ID**, **C\_ID**.
11. Loc\_ID, Block, Plot.
12. Grave\_Size\_ID, Adult, Young, Child.
13. ~~Emp\_No, Emp\_Name, Address, E\_mail, Phone\_Number, Hiredate, Blood\_Group, Date\_of\_Birth, Salary,~~ **~~M\_ID~~**~~.~~
14. ~~M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.~~
15. ~~GrvYrd\_ID, GrvYrd\_Name, GrvYrd\_Area, GrvYrd\_Address.~~
16. ~~M\_ID, M\_Name, NID, Address, E\_mail, Phone\_Number, Gender, Blood\_Group, Date\_of\_Birth, Hiredate, Salary.~~
17. ~~GrvYrd\_ID, GrvYrd\_Name, GrvYrd\_Area, GrvYrd\_Address.~~
18. ~~ID, Name, E\_mail, Phone Number, Address.~~
19. ~~O\_ID, O\_Name, O\_Address, O\_Phone Number, O\_ E\_mail, NID, Gender,~~ **~~ID~~**~~.~~
20. ~~Grave\_ID,~~ **~~Loc\_ID~~**~~,~~ **~~Grave\_Size~~**~~,~~ **~~C\_ID~~**~~.~~
21. ~~Loc\_ID, Block, Plot.~~
22. ~~Grave\_Size \_ID, Adult, Young, Child.~~
23. ~~C\_ID, C\_Name, NID, Death\_Certificate\_No, C\_Address, Date\_of\_Birth, Date\_of\_Death, Reason\_of\_Death, Gender.~~
24. ~~M\_ID, M\_Name, Address, Phone Number, E\_mail, Salary, Blood\_Group, Gender, NID, Date\_of\_Birth, Hiredate.~~

**TABLE CREATION**

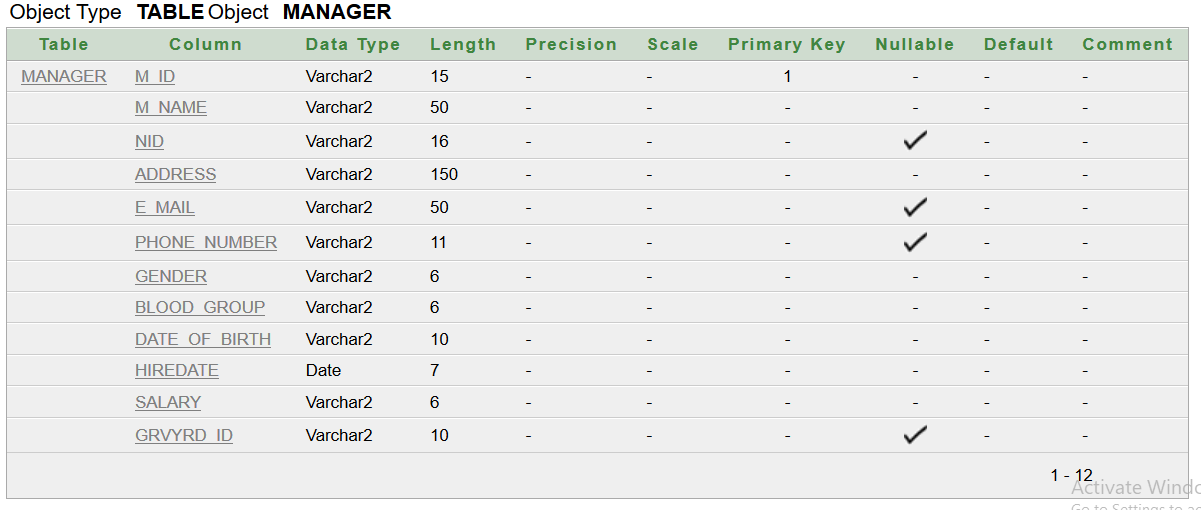
* CREATE TABLE City\_Corporation ( ID VARCHAR2(10) PRIMARY KEY, Name VARCHAR2(50) NOT NULL, E\_mail VARCHAR2(50) UNIQUE, Phone\_Number NUMBER(11) UNIQUE, Address VARCHAR2(150) NOT NULL );



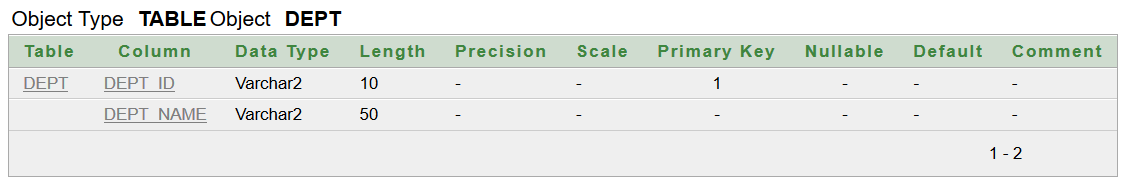
* CREATE TABLE Graveyard ( GrvYrd\_ID VARCHAR2(15) PRIMARY KEY, GrvYrd\_Name VARCHAR2(50) NOT NULL, GrvYrd\_Area VARCHAR2(15) NOT NULL, GrvYrd\_Address VARCHAR2(150) NOT NULL, ID VARCHAR2(10), FOREIGN KEY (ID) REFERENCES City\_Corporation (ID) );



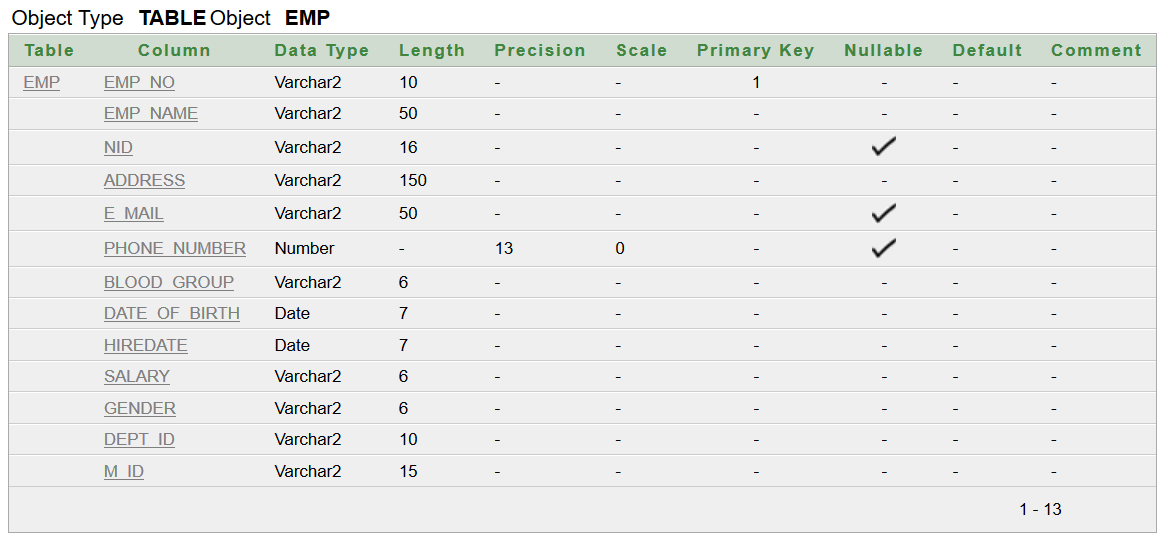
* CREATE TABLE Manager( M\_ID VARCHAR2(15) PRIMARY KEY, M\_Name VARCHAR2(50) NOT NULL, NID VARCHAR2(16) UNIQUE, Address VARCHAR2(150) NOT NULL, E\_mail VARCHAR2(50) UNIQUE, Phone\_Number VARCHAR2(11) UNIQUE, Gender VARCHAR2(6) NOT NULL, CHECK (Gender='Male' or Gender='Female'), Blood\_Group VARCHAR2(6) NOT NULL, CHECK (Blood\_Group='A+ve' or Blood\_Group='A-ve' or Blood\_Group='B+ve' or Blood\_Group='B-ve' or Blood\_Group='AB+ve' or Blood\_Group='AB-ve' or Blood\_Group='O+ve' or Blood\_Group='O-ve'), Date\_of\_Birth VARCHAR2(10) NOT NULL, Hiredate DATE NOT NULL, Salary VARCHAR2(6) NOT NULL, GrvYrd\_ID VARCHAR2(10), FOREIGN KEY (GrvYrd\_ID) REFERENCES Graveyard (GrvYrd\_ID) );



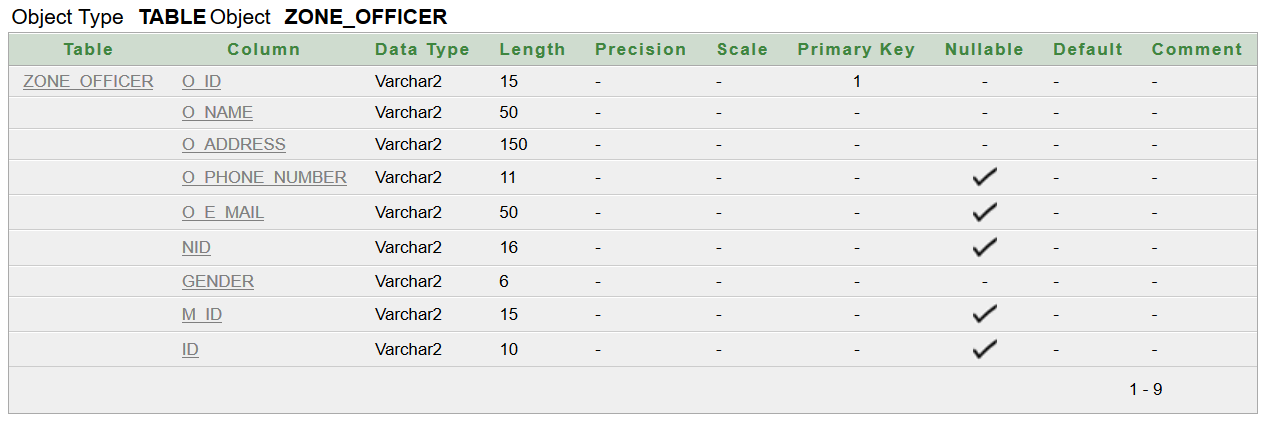
* CREATE TABLE Dept( Dept\_ID VARCHAR2(10) PRIMARY KEY, Dept\_Name VARCHAR2(50) NOT NULL );



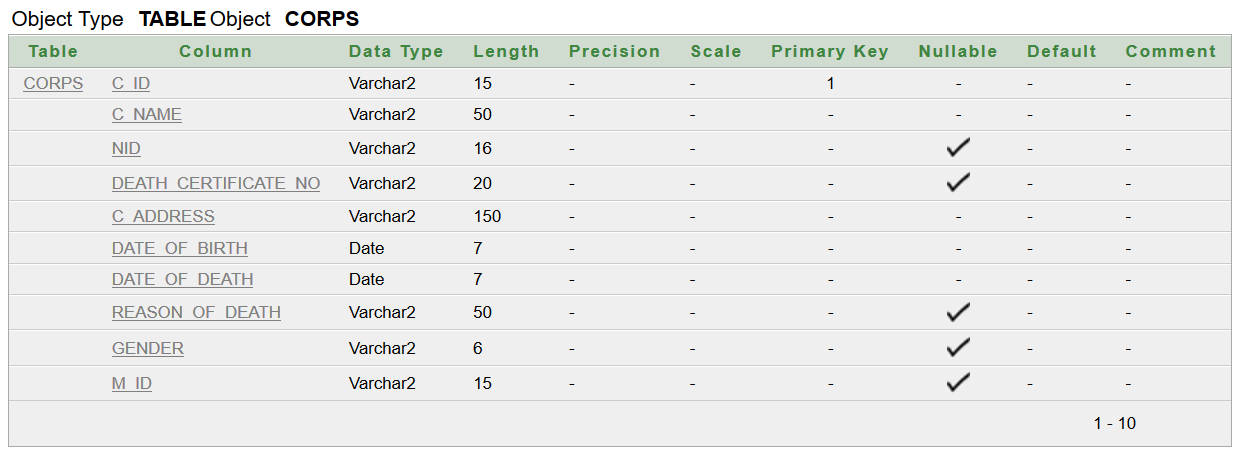
* CREATE TABLE Emp( Emp\_No VARCHAR2(10) PRIMARY KEY, Emp\_Name VARCHAR2(50) NOT NULL, NID VARCHAR2(16) UNIQUE, Address VARCHAR2(150) NOT NULL, E\_mail VARCHAR2(50), Phone\_Number NUMBER(13) UNIQUE, Blood\_Group VARCHAR2(6) NOT NULL, CHECK (Blood\_Group='A+ve' or Blood\_Group='A-ve' or Blood\_Group='B+ve' or Blood\_Group='B-ve' or Blood\_Group='AB+ve' or Blood\_Group='AB-ve' or Blood\_Group='O+ve' or Blood\_Group='O-ve'), Date\_of\_Birth DATE NOT NULL, Hiredate DATE NOT NULL, Salary VARCHAR2(6) NOT NULL, Gender VARCHAR2(6) NOT NULL, CHECK (Gender='Male' or Gender='Female'), Dept\_ID VARCHAR2(10) NOT NULL, M\_ID VARCHAR2(15) NOT NULL, FOREIGN KEY (Dept\_ID) REFERENCES Dept (Dept\_ID), FOREIGN KEY (M\_ID) REFERENCES Manager (M\_ID) );



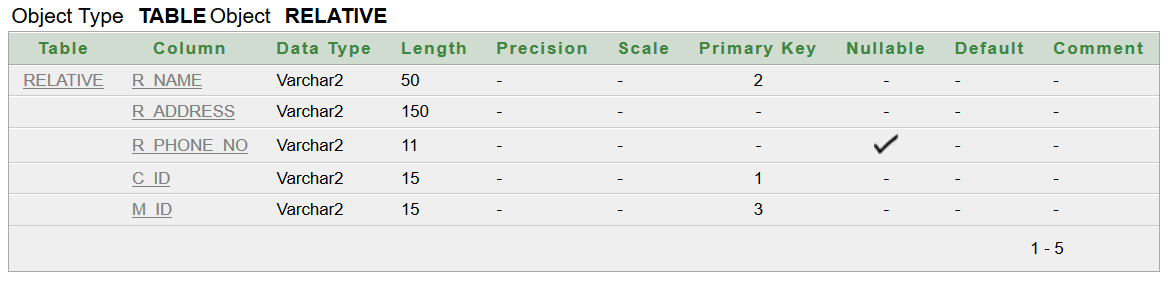
* CREATE TABLE Zone\_Officer( O\_ID VARCHAR2(15) PRIMARY KEY, O\_Name VARCHAR2(50) NOT NULL, O\_Address VARCHAR2(150) NOT NULL, O\_Phone\_Number VARCHAR2(11) UNIQUE, O\_E\_mail VARCHAR2(50) UNIQUE, NID VARCHAR2(16) UNIQUE, Gender VARCHAR2(6) NOT NULL, CHECK (Gender='Male' or Gender='Female'), M\_ID VARCHAR2(15), ID VARCHAR2(10), FOREIGN KEY (M\_ID) REFERENCES Manager (M\_ID), FOREIGN KEY (ID) REFERENCES City\_Corporation (ID) );



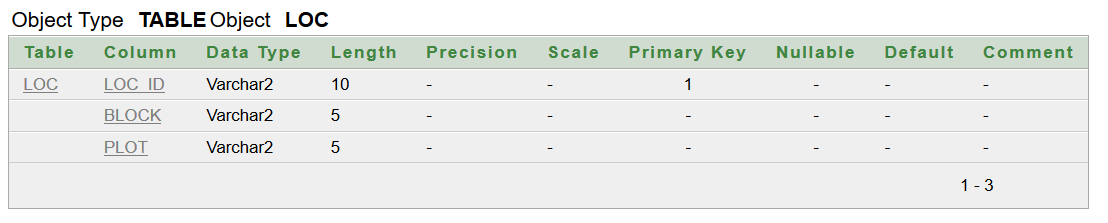
* CREATE TABLE Corps ( C\_ID VARCHAR2(15) PRIMARY KEY, C\_Name VARCHAR2(50) NOT NULL, NID VARCHAR2(16) UNIQUE, Death\_Certificate\_No VARCHAR2(20) UNIQUE, C\_Address VARCHAR2(150) NOT NULL, Date\_of\_Birth DATE NOT NULL, Date\_of\_Death DATE NOT NULL, Reason\_of\_Death VARCHAR2(50), Gender VARCHAR2(6), CHECK (Gender='Male' or Gender='Female'), M\_ID VARCHAR2(15), FOREIGN KEY (M\_ID) REFERENCES Manager (M\_ID) );



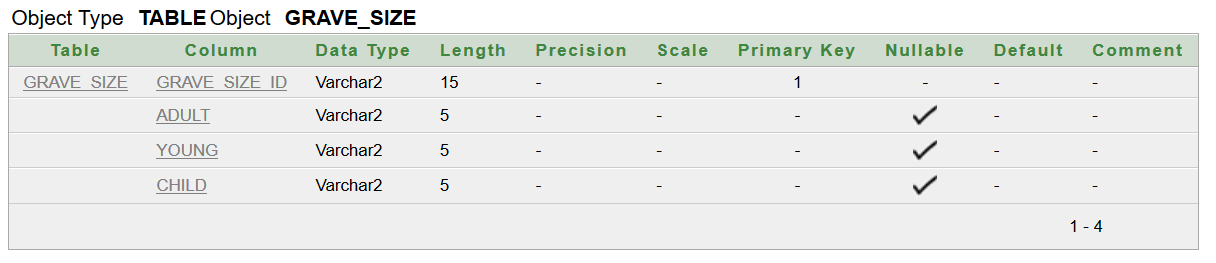
* CREATE TABLE Relative( R\_Name VARCHAR2(50) NOT NULL, R\_Address VARCHAR2(150) NOT NULL, R\_Phone\_No VARCHAR2(11) UNIQUE, C\_ID VARCHAR2 (15), M\_ID VARCHAR2(15), FOREIGN KEY (C\_ID) REFERENCES Corps (C\_ID), FOREIGN KEY (M\_ID) REFERENCES Manager (M\_ID), CONSTRAINT PK\_123 PRIMARY KEY (C\_ID, R\_Name, M\_ID) );



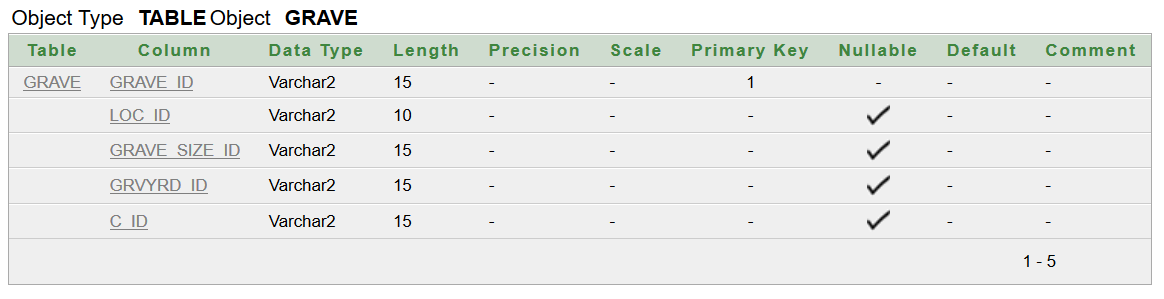
* CREATE TABLE Loc ( Loc\_ID VARCHAR2(10) PRIMARY KEY, Block VARCHAR2(5) NOT NULL, Plot VARCHAR2(5) NOT NULL );



* CREATE TABLE Grave\_Size( Grave\_Size\_ID VARCHAR2(15) PRIMARY KEY, Adult VARCHAR2(5), Young VARCHAR2(5), Child VARCHAR2(5) );



* CREATE TABLE Grave ( Grave\_ID VARCHAR2(15) PRIMARY KEY, Loc\_ID VARCHAR2(10), Grave\_Size\_ID VARCHAR2(15), GrvYrd\_ID VARCHAR2(15), C\_ID VARCHAR2(15), FOREIGN KEY (Loc\_ID) REFERENCES Loc (Loc\_ID), FOREIGN KEY (C\_ID) REFERENCES Corps (C\_ID), FOREIGN KEY (GrvYrd\_ID) REFERENCES Graveyard (GrvYrd\_ID) );



**DATA INSERTION**

**City\_Corporation**

INSERT INTO City\_Corporation VALUES ('1000','Dhaka South City Corporation','mayor@dhakasouthcity.gov.bd','9563506','Nagar Bhaban, Dhaka South City Corporation, Fulbaria, Dhaka-1000.');

**GRAVEYARD**

INSERT INTO Graveyard VALUES('GY-1000-1','Azimpur Graveyard', '32 Acres', 'Area-3, Ward -62, Lalbagh-Azimpur Road, Dhaka.','1000');

**Dept**

INSERT INTO Dept VALUES ('GYD-1200-1','Gravedigger');

INSERT INTO Dept VALUES ('GYD-1200-2','Security');

INSERT INTO Dept VALUES ('GYD-1200-3','Cleaner');

INSERT INTO Dept VALUES ('GYD-1200-4','Washer');

INSERT INTO Dept VALUES ('GYD-1200-5','Gardener');

**Manager**

INSERT INTO Manager VALUES('GYM-1000-82','Md. Alamgir', '1961802270157098', 'Nilkhet', 'malamgir61@gmail.com', '01710000001', 'Male','AB+ve', '19-03-1961', '17-Nov-1981', '15000', 'GY-1000-1');

**Emp**

INSERT INTO Emp VALUES('GYE-1000-2','Samsul Haque', '1961802270394090', 'Nilkhet', 'NULL', '01710000002','B+ve', '03-May-1961', '30-Nov-1981', '9000','Male', 'GYD-1200-3','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-3','Noor Mohammad Sheikh', '1963805270157090', 'Science Lab', 'NULL', '01710000003','O-ve', '28-Jul-1963', '30-Nov-1981', '9500','Male', 'GYD-1200-1','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-4','Bodrul Mia', '1967802270157490', 'Nilkhet', 'NULL', '01710000004','AB+ve', '01-Nov-1967', '30-Nov-1981', '1000','Male', 'GYD-1200-4','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-5','Aleya Begum', '1959802279137050', 'Azimpur', 'NULL', '01710000005','O+ve', '12-Dec-1959', '01-Jan-1990', '8000','Female', 'GYD-1200-2','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-6','Amena Anjum', '1960872270157040', 'Jigatola', 'NULL', '01710000006','O+ve', '28-Feb-1960', '30-Nov-1981', '7000','Female', 'GYD-1200-5','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-7','Kamruddin Alam', '1966807270157050', 'Nilkhet', 'NULL', '01710000007','AB-ve', '15-Nov-1963', '30-Nov-1981', '8000','Male', 'GYD-1200-2','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-8','Samad Khan', '1961830270157020', 'Lalbag', 'NULL', '01710000008','B+ve', '18-Feb-1961', '21-Jan-1988', '9000','Male', 'GYD-1200-3','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1000-9','Boishakhi Khanom', '1960802270157530', 'Bosila', 'NULL', '01710000009','AB+ve', '09-Jul-1960', '07-Aug-1985', '9500','Female', 'GYD-1200-1','GYM-1000-82');

INSERT INTO Emp VALUES('GYE-1001-0','Md. Touhid', '1964802270157090', 'Nilkhet', 'NULL', '01710000010','B-ve', '03-Dec-1964', '07-Feb-1984', '8000','Male', 'GYD-1200-2','GYM-1000-82');

**Loc**

INSERT INTO Loc VALUES('L-701','G','57');

INSERT INTO Loc VALUES('L-702','G','58');

INSERT INTO Loc VALUES('L-592','E','78');

INSERT INTO Loc VALUES('L-345','C','30');

INSERT INTO Loc VALUES('L-1176','K','45');

INSERT INTO Loc VALUES('L-112', 'A', '3');

INSERT INTO Loc VALUES('L-222', 'D', '8');

INSERT INTO Loc VALUES('L-001', 'A', '1');

INSERT INTO Loc VALUES('L-021', 'A', '76');

**Corps**

INSERT INTO Corps VALUES ('GYC-1000-01','Abdul Sattar','NULL','2017573956329501','Bongshal','15-Jan-2017','11-Aug-2017', 'Accident','Male','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-02','Milon Khan', '1964802270157090', '2006433356329500 ','Farmgate','18-Aug-1964','30-Sep-2006', 'Heart Attack','Male','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-03','Rahima Khatun', '1997802270157090', '2000573957629520','Panthapath','19-May-1997','15-Mar-2000', 'Suicide','Female','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-04','Md. Bijoy','1947803370557090','2011973257869520','Azimpur','14-May-1947','11-Nov-2011', 'Murdered','Male','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-05','Anika Parvin',' 201802290350832', '2018583367612520','Bonosree','05-Dec-2008','08-Jun-2018', 'Murdered','Female','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-06','Antora Shikdar','2009458290350148','2009973157629520','Bonosree','29-Sep-1999','07-Aug-2009', 'Accident','Female','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-07','Nandini Chowdhury','1999936490350932','1985573987619530','Kathalbagan','21-Mar-1985','12-Mar-1999', 'Accident','Female','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-08','Kamrul Hasan','2009802290350830','2018273927659650','Chankharpul','17-May-1905','02-Jan-2018', 'Stroke','Male','GYM-1000-82');

INSERT INTO Corps VALUES ('GYC-1000-09','Abu Bakkar','1984802271057090','2010273957622320','Azimpur','05-Feb-1984','21-Sep-2010', 'Suicide','Male','GYM-1000-82');

**Relative**

INSERT INTO Relative VALUES ('Abdul Jabbar','Bongshal','01835498210','GYC-1000-01','GYM-1000-82');

INSERT INTO Relative VALUES ('Hasan Molla','Farmgate','01792540164','GYC-1000-02','GYM-1000-82');

INSERT INTO Relative VALUES ('Jolil Ali','Panthapath','01912486593','GYC-1000-03','GYM-1000-82');

INSERT INTO Relative VALUES ('Abdul Kader','Azimpur','01693629721','GYC-1000-04','GYM-1000-82');

INSERT INTO Relative VALUES ('Abul Hasan','Bonosree','01793105310','GYC-1000-05','GYM-1000-82');

INSERT INTO Relative VALUES ('Jamal Uddin','Bonosree','01756297430','GYC-1000-06','GYM-1000-82');

INSERT INTO Relative VALUES ('Sabbir Hasan','Kathalbagan','01682385321','GYC-1000-07','GYM-1000-82');

**Grave\_Size**

INSERT INTO Grave\_Size VALUES ('GS-1000-01','NULL','NULL','50×10');

INSERT INTO Grave\_Size VALUES ('GS-1000-02',' 75×30','NULL','NULL');

INSERT INTO Grave\_Size VALUES ('GS-1000-03','NULL',' 65×20','NULL');

INSERT INTO Grave\_Size VALUES ('GS-1000-04',' 75×30','NULL','NULL');

INSERT INTO Grave\_Size VALUES ('GS-1000-05','NULL','NULL','50×10');

INSERT INTO Grave\_Size VALUES ('GS-1000-06','NULL','NULL','50×10');

INSERT INTO Grave\_Size VALUES ('GS-1000-07','NULL',' 65×20','NULL');

INSERT INTO Grave\_Size VALUES ('GS-1000-08',' 75×30','NULL','NULL');

INSERT INTO Grave\_Size VALUES ('GS-1000-09',' NULL','65×20','NULL');

**Grave**

INSERT INTO Grave VALUES ('GYG-1000-01','L-701','GS-1000-01','GY-1000-1','GYC-1000-01');

INSERT INTO Grave VALUES ('GYG-1000-02','L-702','GS-1000-02','GY-1000-1','GYC-1000-02');

INSERT INTO Grave VALUES ('GYG-1000-03','L-592','GS-1000-03','GY-1000-1','GYC-1000-03');

INSERT INTO Grave VALUES ('GYG-1000-04','L-345','GS-1000-04','GY-1000-1','GYC-1000-04');

INSERT INTO Grave VALUES ('GYG-1000-05','L-1176','GS-1000-05','GY-1000-1','GYC-1000-05');

INSERT INTO Grave VALUES ('GYG-1000-06','L-112','GS-1000-06','GY-1000-1','GYC-1000-06');

INSERT INTO Grave VALUES ('GYG-1000-07','L-222','GS-1000-07','GY-1000-1','GYC-1000-07');

INSERT INTO Grave VALUES ('GYG-1000-08','L-001','GS-1000-08','GY-1000-1','GYC-1000-08');

INSERT INTO Grave VALUES ('GYG-1000-09','L-021','GS-1000-09','GY-1000-1','GYC-1000-09');

**Zone Officer**

INSERT INTO Zone\_Officer VALUES ('ZO-1000-7','Mohammad Nazmul Islam','Wari','9563507', 'zoneofficer07@dhakasouthcity.gov.bd','1966729461052963','Male','GYM-1000-82','1000');

**QUERY WRITING**

**CONCLUTION:**

After finishing this project, we can say that our project can be helpful for the management of the graveyard. But, we also have to say that it’s not totally complete. There can be mistakes and still scope for advancement. After advancement this will be better, efficient, user friendly. Here we use only oracle software, if we want to really make it usable we have to add it with a software. Then we can use the user interface and other things. With that, it will be truly ready to use.

**THE END**