

PHASE 5

TABLE CREATION AND INSERTION

VOTERS TABLE.

```
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> CREATE TABLE Voters (
  2     Voter_ID INT PRIMARY KEY,
  3     Full_Name VARCHAR2(100),
  4     National_ID VARCHAR2(50) UNIQUE,
  5     Eligibility_Status CHAR(1) CHECK (Eligibility_Status IN ('Y', 'N')) NOT NULL
  6 );
```

Table created.

SQL>

Table created.

```
SQL> INSERT INTO Voters VALUES (1, 'Alice Mukamana', '120987654321', 'Y');
```

1 row created.

```
SQL> INSERT INTO Voters VALUES (2, 'Eric Niyonzima', '120123456789', 'Y');
```

1 row created.

SQL>

ELECTIONS TABLE.

```
SQL> CREATE TABLE Elections (
  2     Election_ID INT PRIMARY KEY,
  3     Election_Type VARCHAR2(50),
  4     Election_Date DATE NOT NULL,
  5     Status VARCHAR2(20) CHECK (Status IN ('Upcoming', 'Ongoing', 'Closed'))
  6 );
```

Table created.

SQL>

```
SQL> INSERT INTO Elections VALUES (1, 'Presidential', TO_DATE('2025-08-01', 'YYYY-MM-DD'), 'Upcoming');
```

1 row created.

SQL>

CANDIDATES TABLE.

```
SQL> CREATE TABLE Candidates (
  2     Candidate_ID INT PRIMARY KEY,
  3     Full_Name VARCHAR2(100),
  4     Party VARCHAR2(50),
  5     Election_ID INT,
  6     FOREIGN KEY (Election_ID) REFERENCES Elections(Election_ID)
  7 );
```

Table created.

SQL>

```
SQL> INSERT INTO Candidates VALUES (1, 'John Doe', 'Unity Party', 1);
```

1 row created.

```
SQL> INSERT INTO Candidates VALUES (2, 'Jane Smith', 'Progress Party', 1);
```

1 row created.

SQL>

VOTES TABLE.

```
SQL> CREATE TABLE Votes (  
  2     Vote_ID INT PRIMARY KEY,  
  3     Voter_ID INT,  
  4     Candidate_ID INT,  
  5     Election_ID INT,  
  6     Timestamp TIMESTAMP,  
  7     FOREIGN KEY (Voter_ID) REFERENCES Voters(Voter_ID),  
  8     FOREIGN KEY (Candidate_ID) REFERENCES Candidates(Candidate_ID),  
  9     FOREIGN KEY (Election_ID) REFERENCES Elections(Election_ID)  
 10 );
```

Table created.

SQL>

```
SQL> INSERT INTO Votes VALUES (1, 1, 1, 1, SYSTIMESTAMP);
```

1 row created.

```
SQL> INSERT INTO Votes VALUES (2, 2, 2, 1, SYSTIMESTAMP);
```

1 row created.

SQL>

RESULTS TABLE.

```
SQL> CREATE TABLE Results (  
  2     Result_ID INT PRIMARY KEY,  
  3     Candidate_ID INT,  
  4     Election_ID INT,  
  5     Total_Votes INT,  
  6     FOREIGN KEY (Candidate_ID) REFERENCES Candidates(Candidate_ID),  
  7     FOREIGN KEY (Election_ID) REFERENCES Elections(Election_ID)  
  8 );
```

Table created.

SQL>

```
SQL> INSERT INTO Results VALUES (1, 1, 1, 1500);
```

1 row created.

```
SQL> INSERT INTO Results VALUES (2, 2, 1, 1320);
```

1 row created.

SQL>

END.