SCREENSHOTS

A. CREATING THE TABLES

County table created

SQL query successfully executed. However, the result set is empty.

Organisation table created

Employee type table created

```
/* create employee type table */
CREATE TABLE employee_type (
  type_code CHAR(3), /*abbreviation of job title, like engineer = ENG */
  e_type VARCHAR(20),
  PRIMARY KEY (type_code)
);
```

SQL query successfully executed. However, the result set is empty.

Employee table created

```
/* create employee table */
CREATE TABLE employee (
    e_id INT,
    o_code INT,
    e_fname VARCHAR(20),
    e_lname VARCHAR(20),
    type_code VARCHAR(3), /*abbreviation of job title, like engineer = ENG */
    e_gender CHAR(1), /* m or f */
    e_salary NUMBER(10,2),
    PRIMARY KEY (e_id),
    FOREIGN KEY (o_code) REFERENCES organisation(o_code),
    FOREIGN KEY (type_code) REFERENCES employee_type(type_code)
    CONSTRAINT unique_values CHECK (e_gender in ('m','f'))

Output

SQL query successfully executed. However, the result set is empty.
```

Hire table created

```
/* create hire table */
CREATE TABLE hire (
   e_id INT,
   o_code INT,
   hire_date DATE,
   years_of_employment INT,
   PRIMARY KEY (e_id, o_code),
   FOREIGN KEY (e_id) REFERENCES employee(e_id),
   FOREIGN KEY (o_code) REFERENCES organisation(o_code)
);
```

SQL query successfully executed. However, the result set is empty.

Salary table created

```
/* create salary table */
CREATE TABLE salary (
  type_code INT,
  o_code INT,
  avg_salary NUMBER(10, 2),
  PRIMARY KEY (type_code, o_code),
  FOREIGN KEY (o_code) REFERENCES organisation(o_code)
);
```

Output

SQL query successfully executed. However, the result set is empty.

School table created

```
/* create school table */
CREATE TABLE school (
   s_id INT,
   c_code INT,
   s_name VARCHAR(20),
   s_population INT,
   s_malepop INT,
   s_femalepop INT,
   PRIMARY KEY (s_id),
   FOREIGN KEY (c_code) REFERENCES county(c_code)
);
```

SQL query successfully executed. However, the result set is empty.

Student table created

```
/* create student table */
CREATE TABLE student (
   st_id INT,
   s_id INT,
   s_fname VARCHAR(20),
   s_lname VARCHAR(20),
   s_gender CHAR(1),
   s_onScholarship CHAR(1),
   PRIMARY KEY (st_id)
   CONSTRAINT unique_values CHECK (s_gender in ('m','f')),
   CONSTRAINT unique_values CHECK (s_onScholarship in ('y','n'))
);

Output
```

SQL query successfully executed. However, the result set is empty.

On_scholarship table created

```
/* create on_scholarship table */
CREATE TABLE on_scholarship (
   st_id INT,
   scholarship VARCHAR(20),
   tuition NUMBER(10, 2),
   PRIMARY KEY (st_id),
   FOREIGN KEY (st_id) REFERENCES student(st_id)
);
```

SQL query successfully executed. However, the result set is empty.

No_scholarship table created

```
/* create no_scholarship table */
CREATE TABLE no_scholarship (
   st_id INT,
   tuition NUMBER(10, 2),
   PRIMARY KEY (st_id),
   FOREIGN KEY (st_id) REFERENCES student(st_id)
);
```

Output

SQL query successfully executed. However, the result set is empty.

Enroll table created

```
/* create enroll table */
CREATE TABLE enroll (
   st_id INT,
   s_id INT,
   enroll_date DATE,
   enroll_year VARCHAR(10), /*freshman, sophomore, junior, senior*/
   PRIMARY KEY (st_id, s_id),
   FOREIGN KEY (st_id) REFERENCES student(st_id),
   FOREIGN KEY (s_id) REFERENCES school(s_id)
);
```

SQL query successfully executed. However, the result set is empty.

Degree table created

```
/* create degree table */
CREATE TABLE degree (
  deg_code CHAR(3), /*Abbreviation of degree name, e.g Accounting = ACC*/
  deg_name VARCHAR(30),
  PRIMARY KEY (deg_code)
);
```

Output

SQL query successfully executed. However, the result set is empty.

GPA table created

```
/* create gpa table */
CREATE TABLE gpa (
   grade CHAR(1), /* A, B, C, D, F */
   g_start INT, /* e.g A starts at 90 */
   g_end INT, /*eng A ends at 100*/
   standing VARCHAR(10), /*good or bad*/
   PRIMARY KEY (grade)
   CONSTRAINT unique_values CHECK (standing in ('good','bad'))
);
```

SQL query successfully executed. However, the result set is empty.

Graduate table created

```
/* create graduate table */
CREATE TABLE graduate (
   st_id INT,
   s_id INT,
   g_date DATE,
   grade CHAR(1), /* A, B, C, D, F */
   deg_code CHAR(3), /*abbreviation of degree name, e.g Psychology = PSY */
   PRIMARY KEY (st_id, s_id),
   FOREIGN KEY (st_id) REFERENCES student(st_id),
   FOREIGN KEY (s_id) REFERENCES school(s_id),
   FOREIGN KEY (deg_code) REFERENCES degree(deg_code),
   FOREIGN KEY (grade) REFERENCES gpa(grade)
);
```

Output

SQL query successfully executed. However, the result set is empty.

B. PUTTING RECORDS INTO THE TABLES Records into county table

```
INSERT INTO county (c_code, c_name, c_population, c_malepop, c_femalepop)
(001, 'Mombasa', 1208333, 609157, 599176),
(002, 'Kwale', 866820, 429328, 437492),
(003, 'Kilifi', 1453787, 708480, 745307),
(004, 'Tana River', 315943, 159364, 156579),
(005, 'Lamu', 143920, 69767, 74153),
(006, 'Taita Taveta', 340671, 168091, 172580),
(007, 'Garissa', 841353, 440610, 400743),
(008, 'Wajir', 781263, 402527, 378736),
(009, 'Mandera', 867457, 459358, 408099),
(010, 'Marsabit', 459785, 234567, 225218);
Output
```

SQL query successfully executed. However, the result set is empty.

Records into organisation table

```
INSERT INTO organisation VALUES
(1001, 001, 'ABC Inc.', 50, 25, 25),
(1002, 002, 'XYZ Corp.', 100, 60, 40),
(1003, 003, 'Acme Co.', 200, 100, 100),
(1004, 004, 'Beta Corp.', 75, 30, 45),
(1005, 005, 'Gamma LLC', 150, 75, 75),
(1006, 006, 'Delta Corp.', 80, 40, 40),
(1007, 007, 'Epsilon Inc.', 30, 10, 20),
(1008, 008, 'Theta Corp.', 125, 70, 55),
(1009, 009, 'Iota LLC', 50, 20, 30),
(1010, 010, 'Kappa Co.', 90, 45, 45);
Output
SQL query successfully executed. However, the result set is empty.
```

Records into employee type table

```
INSERT INTO employee_type VALUES
('ACC', 'Accountant'),
('ADM', 'Administrator'),
('ENG', 'Engineer'),
('EXC', 'Company Executive'),
('HRM', 'Human Resources Manager'),
('INT', 'Intern'),
('MRK', 'Marketing'),
('PRG', 'Programmer'),
('SAL', 'Salesperson'),
('OPR', 'Operations manager');
Output
SQL query successfully executed. However, the result set is empty.
```

Records into employee table

```
INSERT INTO employee VALUES
(600001, 1001, 'John', 'Doe', 'ENG', 'm', 70000.00),
(600002, 1003, 'Jane', 'Smith', 'HRM', 'f', 85000.00),
(600003, 1002, 'David', 'Brown', 'INT', 'm', 90000.00),
(600004, 1001, 'Linda', 'Johnson', 'ACC', 'f', 55000.00),
(600005, 1002, 'Michael', 'Wilson', 'ENG', 'm', 80000.00),
(600006, 1005, 'Sarah', 'Taylor', 'MRK', 'f', 65000.00),
(600007, 1004, 'Matthew', 'Anderson', 'OPR', 'm', 95000.00),
(600008, 1003, 'Emily', 'Clark', 'SAL', 'f', 75000.00),
(600009, 1005, 'Daniel', 'Martinez', 'PRG', 'm', 85000.00),
(600010, 1004, 'Amanda', 'Lee', 'EXC', 'f', 70000.00);
Output
SQL query successfully executed. However, the result set is empty.
```

Records into hire table

```
/*insert records into hire table*/
INSERT INTO hire VALUES
(600001, 1001, '2010-05-12', 11),
(600002, 1003, '2018-09-20', 3),
(600003, 1002, '2015-02-28', 6),
(600004, 1001, '2012-07-11', 9),
(600005, 1002, '2019-04-30', 2),
(600006, 1005, '2016-11-18', 5),
(600007, 1004, '2014-03-15', 8),
(600008, 1003, '2017-06-22', 4),
(600009, 1005, '2013-08-08', 8),
(600010, 1004, '2021-01-10', 1);

Output

SQL query successfully executed. However, the result set is empty.
```

```
## Records into salary table

/*insert records into salary*/
INSERT INTO salary VALUES
('ACC', 1001, 85000.00),
('ADM', 1001, 125000.00),
('ENG', 1002, 55000.00),
('EXC', 1002, 55000.00),
('HRM', 1003, 45000.00),
('INT', 1003, 60000.00),
('MRK', 1004, 80000.00),
('PRG', 1004, 130000.00),
('SAL', 1005, 70000.00),
('OPR', 1005, 40000.00);

Output

SQL query successfully executed. However, the result set is empty.
```

Records into school table

```
/*insert into school*/
INSERT INTO school (s_id, c_code, s_name, s_population, s_malepop, s_femalepop)
VALUES
(1, 001, 'Springfield High School', 1000, 500, 500),
(2, 002, 'Oakland Elementary', 750, 350, 400),
(3, 002, 'Maplewood Middle School', 900, 450, 450),
(4, 003, 'Northridge High School', 1100, 600, 500),
(5, 004, 'Lincoln Elementary', 600, 300, 300),
(6, 005, 'Roosevelt Middle School', 800, 400, 400),
(7, 006, 'Jefferson Elementary', 650, 300, 350),
(8, 008, 'Westfield High School', 950, 500, 450),
(9, 009, 'Hillside Elementary', 500, 250, 250),
(10, 010, 'Fairview Middle School', 700, 350, 350);

Output

SQL query successfully executed. However, the result set is empty.
```

Records into student table

```
INSERT INTO student (st_id, s_id, s_fname, s_lname, s_gender, s_onScholarship)
VALUES
  (1, 1, 'John', 'Doe', 'm', 'y'),
  (2, 2, 'Jane', 'Smith', 'f', 'n'),
  (3, 3, 'Bob', 'Johnson', 'm', 'n'),
  (4, 4, 'Alice', 'Williams', 'f', 'y'),
  (5, 5, 'Mark', 'Davis', 'm', 'n'),
  (6, 6, 'Sara', 'Lee', 'f', 'y'),
  (7, 7, 'David', 'Brown', 'm', 'n'),
  (8, 8, 'Emily', 'Taylor', 'f', 'n'),
  (9, 9, 'Michael', 'Wilson', 'm', 'y'),
  (10, 10, 'Jennifer', 'Thomas', 'f', 'y'),
  (11, 1, 'Oliver', 'Doe', 'm', 'y'),
  (12, 2, 'Olivia', 'Smith', 'f', 'n'),
Output
SQL query successfully executed. However, the result set is empty.
```

Records into enroll table

```
/*insert into enroll*/
INSERT INTO enroll (st_id, s_id, enroll_date, enroll_year)
VALUES
(1, 1, '2021-09-01', 'freshman'),
(2, 2, '2021-09-01', 'junior'),
(3, 3, '2021-09-01', 'sophomore'),
(4, 4, '2021-09-01', 'sreior'),
(5, 5, '2021-09-01', 'freshman'),
(6, 6, '2021-09-01', 'sophomore'),
(7, 7, '2021-09-01', 'freshman'),
(8, 8, '2021-09-01', 'senior'),
(9, 9, '2021-09-01', 'junior'),
(10, 10, '2021-09-01', 'freshman');

Output

SQL query successfully executed. However, the result set is empty.
```

Records into on_scholarship table

```
/*insert into on_scholarship*/
INSERT INTO on_scholarship (st_id, scholarship, tuition)
VALUES

(1, 'Merit Scholarship', 5000.00),
(2, 'Athletic Scholarship', 7500.00),
(4, 'Need-based Scholarship', 10000.00),
(5, 'Merit Scholarship', 5000.00),
(6, 'Athletic Scholarship', 7500.00),
(7, 'Need-based Scholarship', 10000.00),
(8, 'Merit Scholarship', 5000.00),
(9, 'Athletic Scholarship', 7500.00),
(10, 'Need-based Scholarship', 10000.00),
(3, 'Merit Scholarship', 5000.00);

Output

SQL query successfully executed. However, the result set is empty.
```

Records into no scholarship table

```
/*insert into no_scholarship*/
INSERT INTO no_scholarship (st_id, tuition)
VALUES
(11, 10000.00),
(12, 12000.00),
(13, 9000.00),
(14, 11000.00),
(15, 8000.00),
(16, 13000.00),
(17, 9500.00),
(18, 11500.00),
(19, 7500.00),
(20, 14000.00);

Output

SQL query successfully executed. However, the result set is empty.
```

Records into degree table

```
/*insert into degree table*/
INSERT INTO degree (deg_code, deg_name)
VALUES

('CSI', 'Computer Science'),
('ENG', 'English'),
('BIO', 'Biology'),
('GDE', 'Graphic Design'),
('PSY', 'Psychology'),
('HIS', 'History'),
('MTH', 'Mathematics'),
('CHM', 'Chemistry'),
('PSC', 'Political Science'),
('ENV', 'Environmental Science');

Output

SQL query successfully executed. However, the result set is empty.
```

Records into gpa table

```
/*insert into gpa table*/
INSERT INTO gpa (grade, g_start, g_end, standing)
VALUES

('A', 90, 100, 'good'),
('B', 80, 89, 'good'),
('C', 70, 79, 'good'),
('D', 60, 69, 'bad'),
('F', 50, 59, 'bad'),
('G', 40, 49, 'bad'),
('H', 30, 39, 'bad'),
('I', 20, 29, 'bad'),
('J', 10, 19, 'bad'),
('K', 0, 9, 'bad');

Output

SQL query successfully executed. However, the result set is empty.
```

Records into graduate table

```
/*insert into graduate*/
/*option 1*/
INSERT INTO graduate (st_id, s_id, g_date, grade, deg_code)
VALUES

(1, 1, '2022-05-20', 'A', 'CHM'),
(2, 2, '2021-12-15', 'B', 'ENG'),
(3, 3, '2022-05-20', 'A', 'BIO'),
(4, 4, '2021-12-15', 'C', 'HIS'),
(5, 5, '2022-05-20', 'B', 'ENV'),
(6, 6, '2021-12-15', 'A', 'CSI'),
(7, 7, '2022-05-20', 'C', 'PSC'),
(8, 8, '2021-12-15', 'D', 'PSC'),
(9, 9, '2022-05-20', 'B', 'ENG'),
(10, 10, '2021-12-15', 'F', 'BIO');

Output

SQL query successfully executed. However, the result set is empty.
```