```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 1
```

```
1 -- Creating the New Database
 2 CREATE DATABASE EMPLOYEE;
 3
 4 -- Switching to EMPLOYEE Database
 5 USE EMPLOYEE;
 6
 7
   -- Creating Department Table
  CREATE TABLE Department (
 8
 9
       DepartmentID INT PRIMARY KEY,
10
       DepartmentName VARCHAR(100) NOT NULL
11 );
12
13 -- Creating JobTitle Table
14 CREATE TABLE JobTitle (
15
       JobTitleID INT PRIMARY KEY,
16
       JobTitleName VARCHAR(100) NOT NULL
17 );
18
19 -- Creating Employee Table
20 CREATE TABLE Employee (
       EmployeeID INT PRIMARY KEY,
21
22
       FirstName VARCHAR(100) NOT NULL,
23
       LastName VARCHAR(100) NOT NULL,
24
       DateOfBirth DATE,
25
       Gender VARCHAR(10),
       PhoneNumber VARCHAR(15),
26
27
       Email VARCHAR(100),
28
       HireDate DATE,
29
       DepartmentID INT,
30
       JobTitleID INT,
31
       ManagerID INT,
       FOREIGN KEY (DepartmentID) REFERENCES Department(DepartmentID),
32
33
       FOREIGN KEY (JobTitleID) REFERENCES JobTitle(JobTitleID),
34
       FOREIGN KEY (ManagerID) REFERENCES Employee(EmployeeID)
          Referencing Foreign Key)
35 );
36
37 -- Creating Salary Table
38 CREATE TABLE Salary (
39
       SalaryID INT PRIMARY KEY,
       EmployeeID INT NOT NULL FOREIGN KEY (EmployeeID) REFERENCES Employee
40
          (EmployeeID),
41
       BaseSalary DECIMAL(10,2) NOT NULL,
42
       Bonus DECIMAL(10,2) DEFAULT 0.00,
43
       Deductions DECIMAL(10,2) DEFAULT 0.00,
44
       PaymentDate DATE NOT NULL
45 );
46
47 -- Creating Attendance Table
48 CREATE TABLE Attendance (
49
       AttendanceID INT PRIMARY KEY,
50
       EmployeeID INT NOT NULL,
51
       Date DATE NOT NULL,
52
       Status VARCHAR(10) CHECK (Status IN ('Present', 'Absent', 'Leave')),
       FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID)
53
54);
```

```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 2
55
56 -- Creating Project Table
57 CREATE TABLE Project (
58
         ProjectID INT PRIMARY KEY,
59
         ProjectName VARCHAR(100) NOT NULL,
60
         StartDate DATE,
61
         EndDate DATE,
62
         ProjectManagerID INT,
63
         FOREIGN KEY (ProjectManagerID) REFERENCES Employee(EmployeeID)
64 );
65
66 -- Creating ProjectAllocation Table
    CREATE TABLE ProjectAllocation (
68
         AllocationID INT PRIMARY KEY,
69
         EmployeeID INT,
70
         ProjectID INT,
71
         AllocationDate DATE,
         FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID),
72
73
         FOREIGN KEY (ProjectID) REFERENCES Project(ProjectID),
74
         CONSTRAINT UC_Employee_Project UNIQUE(EmployeeID, ProjectID)
75);
76
77
    ---- INSERT DATA INTO CREATED TABLE ----
78
79 -- Insert Data into Department Table
80 INSERT INTO Department (DepartmentID, DepartmentName)
81 VALUES (1, 'Human Resources'),
            (2, 'Engineering'),
            (3, 'Sales'),
83
            (4, 'Marketing'),
84
            (5, 'Finance');
85
86
87 -- Insert Data into Job Title Table
88 INSERT INTO JobTitle (JobTitleID, JobTitleName)
89 VALUES (1, 'HR Manager'),
            (2, 'Software Engineer'),
90
            (3, 'Sales Executive'),
91
            (4, 'Marketing Manager'),
92
93
            (5, 'Finance Analyst'),
94
            (6, 'Project Manager'),
            (7, 'Software Developer'),
95
            (8, 'Accountant'),
            (9, 'Data Scientist'),
97
98
            (10, 'Marketing Executive');
99
100 -- Insert Data into Employee Table
101 INSERT INTO Employee (EmployeeID, FirstName, LastName, DateOfBirth, Gender,
      PhoneNumber, Email, HireDate, DepartmentID, JobTitleID, ManagerID)
102 VALUES
         (1, 'John', 'Doe', '1980-01-15', 'M', '123-456-7890',
103
                                                                                       P
            'john.doe@example.com', '2015-06-01', 1, 1, NULL),
         (2, 'Jane', 'Smith', '1985-03-20', 'F', '234-567-8901', 
'jane.smith@example.com', '2016-07-10', 2, 2, NULL),
104
         (3, 'Michael', 'Johnson', '1978-11-30', 'M', '345-678-9012',
105
                                                                                       P
           'michael.johnson@example.com', '2014-08-15', 3, 3, NULL),
106
         (4, 'Emily', 'Davis', '1990-05-25', 'F', '456-789-0123',
```

```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 3
           'emily.davis@example.com', '2017-09-01', 4, 4, 1),
107
         (5, 'David', 'Martinez', '1982-07-18', 'M', '567-890-1234',
                                                                                       P
           'david.martinez@example.com', '2015-10-21', 5, 5, 2),
         (6, 'Sarah', 'Miller', '1992-02-10', 'F', '678-901-2345',
108
                                                                                       P
           'sarah.miller@example.com', '2018-01-15', 1, 2, 3),
         (7, 'James', 'Wilson', '1988-09-05', 'M', '789-012-3456',
109
            'james.wilson@example.com', '2016-03-12', 2, 3, 4),
         (8, 'Olivia', 'Moore', '1991-10-25', 'F', '890-123-4567',
110
           'olivia.moore@example.com', '2017-12-10', 3, 4, 5),
         (9, 'William', 'Taylor', '1983-04-13', 'M', '901-234-5678',
111
                                                                                       P
           'william.taylor@example.com', '2016-11-30', 4, 1, 3),
         (10, 'Sophia', 'Anderson', '1993-06-27', 'F', '123-456-7891',
112
           'sophia.anderson@example.com', '2018-02-22', 5, 5, 2),
113
         (11, 'Benjamin', 'Thomas', '1981-12-09', 'M', '234-567-8902',
                                                                                       P
           'benjamin.thomas@example.com', '2014-05-18', 1, 2, 3),
         (12, 'Isabella', 'Jackson', '1987-03-15', 'F', '345-678-9013',
114
           'isabella.jackson@example.com', '2017-06-05', 2, 3, 4),
         (13, 'Lucas', 'White', '1984-08-28', 'M', '456-789-0124',
115
           'lucas.white@example.com', '2015-07-09', 3, 4, 5),
         (14, 'Mia', 'Harris', '1994-01-19', 'F', '567-890-1235',
116
           'mia.harris@example.com', '2018-03-17', 4, 1, 1),
         (15, 'Alexander', 'Clark', '1986-12-21', 'M', '678-901-2346',
117
           'alexander.clark@example.com', '2016-04-25', 5, 5, 2),
118
         (16, 'Ethan', 'Lewis', '1990-09-11', 'M', '789-012-3457',
           'ethan.lewis@example.com', '2017-09-11', 1, 1, 3),
         (17, 'Ava', 'Walker', '1988-02-03', 'F', '890-123-4568',
119
           'ava.walker@example.com', '2016-10-07', 2, 2, 4),
         (18, 'Charlotte', 'Hall', '1985-05-29', 'F', '901-234-5679',
120
           'charlotte.hall@example.com', '2015-12-15', 3, 3, 5),
         (19, 'Jackson', 'Allen', '1981-11-03', 'M', '123-456-7892',
121
           'jackson.allen@example.com', '2014-06-21', 4, 4, 1),
         (20, 'Amelia', 'Young', '1989-08-17', 'F', '234-567-8903',
122
           'amelia.young@example.com', '2016-01-25', 5, 5, 2),
123
         (21, 'Sebastian', 'King', '1984-02-20', 'M', '345-678-9014',
           'sebastian.king@example.com', '2014-11-28', 1, 2, 3),
         (22, 'Liam', 'Wright', '1987-07-08', 'M', '456-789-0125',
124
           'liam.wright@example.com', '2016-09-19', 2, 3, 4),
         (23, 'Aiden', 'Scott', '1983-12-22', 'M', '567-890-1236', 
'aiden.scott@example.com', '2015-04-02', 3, 4, 5),
125
         (24, 'Harper', 'Green', '1991-01-30', 'F', '678-901-2347',
126
           'harper.green@example.com', '2017-05-12', 4, 1, 1),
         (25, 'Jack', 'Adams', '1986-09-14', 'M', '789-012-3458',
127
           'jack.adams@example.com', '2016-12-01', 5, 5, 2),
         (26, 'Ella', 'Baker', '1989-03-11', 'F', '890-123-4569',
128
           'ella.baker@example.com', '2015-07-23', 1, 2, 3),
         (27, 'Henry', 'Gonzalez', '1993-10-07', 'M', '901-234-5680',
129
           'henry.gonzalez@example.com', '2018-01-03', 2, 3, 4),
         (28, 'Lily', 'Nelson', '1992-06-05', 'F', '123-456-7893',
130
           'lily.nelson@example.com', '2018-03-01', 3, 4, 5),
         (29, 'Matthew', 'Carter', '1985-11-18', 'M', '234-567-8904',
131
           'matthew.carter@example.com', '2016-02-14', 4, 1, 3),
         (30, 'Scarlett', 'Mitchell', '1988-07-26', 'F', '345-678-9015',
132
           'scarlett.mitchell@example.com', '2017-06-23', 5, 5, 2),
133
         (31, 'Charlotte', 'Perez', '1981-12-15', 'F', '456-789-0126',
                                                                                      P
           'charlotte.perez@example.com', '2014-08-19', 1, 2, 3),
134
         (32, 'James', 'Roberts', '1984-04-21', 'M', '567-890-1237',
```

```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 4
            james.roberts@example.com', '2015-09-09', 2, 3, 4),
         (33, 'Oliver', 'Murphy', '1990-12-01', 'M', '678-901-2348',
135
           'oliver.murphy@example.com', '2016-04-18', 3, 4, 5),
         (34, 'Avery', 'Evans', '1992-09-13', 'F', '789-012-3459',
136
                                                                                      P
           'avery.evans@example.com', '2017-10-02', 4, 1, 1),
         (35, 'Mason', 'Walker', '1989-05-08', 'M', '890-123-4570',
137
           'mason.walker@example.com', '2015-03-20', 5, 5, 2),
         (36, 'Sophia', 'Wood', '1991-11-09', 'F', '901-234-5681',
138
           'sophia.wood@example.com', '2016-08-17', 1, 2, 3),
139
         (37, 'Jacob', 'Green', '1987-06-03', 'M', '123-456-7894',
                                                                                      P
           'jacob.green@example.com', '2016-12-07', 2, 3, 4),
         (38, 'Samuel', 'Baker', '1994-08-19', 'M', '234-567-8905',
140
           'samuel.baker@example.com', '2017-01-15', 3, 4, 5),
141
         (39, 'Zoe', 'Lopez', '1983-03-27', 'F', '345-678-9016',
                                                                                     P
           'zoe.lopez@example.com', '2015-10-31', 4, 1, 1),
         (40, 'Gabriel', 'Hill', '1986-07-12', 'M', '456-789-0127',
142
            gabriel.hill@example.com', '2016-05-20', 5, 5, 2),
         (41, 'Elijah', 'Graham', '1992-04-15', 'M', '567-890-1238',
143
           'elijah.graham@example.com', '2018-02-03', 1, 2, 3),
144
         (42, 'Lucy', 'Rivera', '1989-09-09', 'F', '678-901-2349',
           'lucy.rivera@example.com', '2016-09-29', 2, 3, 4),
         (43, 'Isaac', 'Cooper', '1990-01-25', 'M', '789-012-3460',
145
           'isaac.cooper@example.com', '2017-03-15', 3, 4, 5),
146
         (44, 'Chloe', 'James', '1993-11-18', 'F', '890-123-4571',
           'chloe.james@example.com', '2018-05-10', 4, 1, 1),
         (45, 'Liam', 'Lee', '1987-02-27', 'M', '901-234-5682',
147
           'liam.lee@example.com', '2016-07-25', 5, 5, 2),
         (46, 'Benjamin', 'Lopez', '1985-10-12', 'M', '123-456-7895',
148
           'benjamin.lopez@example.com', '2015-02-28', 1, 2, 3),
         (47, 'Aiden', 'Harris', '1990-07-23', 'M', '234-567-8906',
149
           'aiden.harris@example.com', '2016-11-12', 2, 3, 4),
         (48, 'Layla', 'Thompson', '1991-05-05', 'F', '345-678-9017',
150
           'layla.thompson@example.com', '2017-07-08', 3, 4, 5),
151
         (49, 'Jackson', 'Johnson', '1988-08-13', 'M', '456-789-0128',
           'jackson.johnson@example.com', '2015-04-25', 4, 1, 1),
         (50, 'Grace', 'White', '1982-09-22', 'F', '567-890-1239',
152
                                                                                     P
           'grace.white@example.com', '2015-01-13', 5, 5, 2);
153
154
    -- Insert Data into Salary Table
    INSERT INTO Salary (SalaryID, EmployeeID, BaseSalary, Bonus, Deductions,
       PaymentDate)
156 VALUES
157
         (1, 1, 60000, 5000, 1000, '2024-10-30'),
         (2, 2, 70000, 6000, 1200, '2024-10-30'),
158
         (3, 3, 65000, 5500, 1100, '2024-10-30'),
159
         (4, 4, 75000, 6500, 1300, '2024-10-30'),
160
         (5, 5, 68000, 6200, 1250, '2024-10-30'),
161
162
         (6, 6, 72000, 6300, 1400, '2024-10-30'),
         (7, 7, 66000, 5400, 1150, '2024-10-30'),
163
164
         (8, 8, 71000, 5900, 1300, '2024-10-30'),
         (9, 9, 67000, 6100, 1200, '2024-10-30'),
165
         (10, 10, 69000, 6000, 1300, '2024-10-30'),
166
         (11, 11, 72000, 5500, 1250, '2024-10-30'),
167
         (12, 12, 70000, 5800, 1200, '2024-10-30'),
168
         (13, 13, 74000, 6100, 1350, '2024-10-30'),
169
         (14, 14, 69000, 5900, 1250, '2024-10-30'),
170
```

```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 5
171
         (15, 15, 67000, 5500, 1100,
                                       '2024-10-30'),
172
         (16, 16, 72000, 5400, 1200,
                                       '2024-10-30'),
173
         (17, 17, 70000, 5900, 1300,
                                      '2024-10-30'),
174
         (18, 18, 68000, 5700, 1250,
                                      '2024-10-30'),
175
         (19, 19, 71000, 6200, 1200,
                                      '2024-10-30'),
                                      '2024-10-30'),
176
         (20, 20, 69000, 5400, 1350,
                                      '2024-10-30'
         (21, 21, 73000, 5600, 1200,
177
                                      '2024-10-30'),
178
         (22, 22, 68000, 5800, 1250,
179
         (23, 23, 71000, 6000, 1300,
                                      '2024-10-30'),
180
         (24, 24, 65000, 5400, 1150,
                                      '2024-10-30'),
         (25, 25, 68000, 5900, 1200,
181
                                      '2024-10-30'),
182
         (26, 26, 70000, 6200, 1250,
                                      '2024-10-30'),
         (27, 27, 71000, 6300, 1350,
                                      '2024-10-30'),
183
184
         (28, 28, 68000, 5900, 1200,
                                      '2024-10-30'),
         (29, 29, 72000, 6000, 1250,
                                      '2024-10-30'),
185
                                       '2024-10-30'),
186
         (30, 30, 75000, 6500, 1300,
                                       '2024-10-30'),
187
         (31, 31, 70000, 5800, 1200,
188
         (32, 32, 69000, 6100, 1250,
                                      '2024-10-30'),
189
         (33, 33, 67000, 5600, 1150,
                                      '2024-10-30'),
190
         (34, 34, 72000, 5900, 1300,
                                      '2024-10-30'),
                                      '2024-10-30'),
191
         (35, 35, 74000, 6100, 1350,
         (36, 36, 68000, 5400, 1200,
                                      '2024-10-30'
192
                                      '2024-10-30'),
         (37, 37, 69000, 5800, 1250,
193
194
         (38, 38, 71000, 5900, 1300,
                                      '2024-10-30'),
195
         (39, 39, 75000, 6000, 1350,
                                      '2024-10-30'),
196
         (40, 40, 67000, 5500, 1100,
                                      '2024-10-30'),
197
         (41, 41, 72000, 5900, 1250,
                                      '2024-10-30'),
                                      '2024-10-30'),
198
         (42, 42, 74000, 6200, 1300,
                                      '2024-10-30'),
199
         (43, 43, 71000, 5800, 1250,
         (44, 44, 68000, 5400, 1200,
                                      '2024-10-30'),
200
201
         (45, 45, 69000, 6000, 1250,
                                       '2024-10-30'),
202
         (46, 46, 73000, 5500, 1300,
                                      '2024-10-30'),
         (47, 47, 71000, 5900, 1200,
203
                                      '2024-10-30'),
204
         (48, 48, 75000, 6500, 1350, '2024-10-30'),
         (49, 49, 68000, 5700, 1250, '2024-10-30'),
205
         (50, 50, 70000, 6000, 1300, '2024-10-30');
206
207
208
    -- Insert Data into Attendance Table
209
    INSERT INTO Attendance (AttendanceID, EmployeeID, [Date], [Status])
210
    VALUES
         (1, 1, '2024-10-01', 'Present'),
211
         (2, 2, '2024-10-01', 'Absent'),
212
         (3, 3, '2024-10-01', 'Leave'),
213
         (4, 4, '2024-10-01', 'Present'),
214
                '2024-10-01', 'Absent'),
215
         (5, 5,
                '2024-10-01', 'Present'),
216
         (6, 6,
                '2024-10-01', 'Leave'),
217
         (7, 7,
         (8, 8, '2024-10-01', 'Present'),
218
219
         (9, 9, '2024-10-01', 'Absent'),
220
         (10, 10, '2024-10-01', 'Present'),
                  '2024-10-01', 'Present'),
221
         (11, 11,
                  '2024-10-01', 'Absent'),
222
         (12, 12,
                  '2024-10-01', 'Leave'),
223
         (13, 13,
224
         (14, 14,
                  '2024-10-01', 'Present'),
         (15, 15, '2024-10-01', 'Absent'),
225
         (16, 16, '2024-10-01', 'Leave'),
226
```

```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 6
227
         (17, 17, '2024-10-01', 'Present'),
         (18, 18, '2024-10-01', 'Absent'),
228
         (19, 19, '2024-10-01', 'Present'),
229
         (20, 20, '2024-10-01', 'Present'),
230
         (21, 21, '2024-10-01', 'Absent'),
231
         (22, 22, '2024-10-01', 'Leave'),
232
         (23, 23, '2024-10-01', 'Present'),
233
         (24, 24, '2024-10-01', 'Absent'),
234
         (25, 25, '2024-10-01', 'Present'),
(26, 26, '2024-10-01', 'Leave'),
235
236
         (27, 27, '2024-10-01', 'Present'),
237
         (28, 28, '2024-10-01', 'Absent'),
238
         (29, 29, '2024-10-01', 'Leave'),
239
         (30, 30, '2024-10-01', 'Present'),
240
         (31, 31, '2024-10-01', 'Absent'),
241
         (32, 32, '2024-10-01', 'Present'),
242
         (33, 33, '2024-10-01', 'Leave'),
243
         (34, 34, '2024-10-01', 'Present'),
244
245
         (35, 35, '2024-10-01', 'Absent'),
         (36, 36, '2024-10-01', 'Leave'),
246
         (37, 37, '2024-10-01', 'Present'),
247
         (38, 38, '2024-10-01', 'Absent'),
248
         (39, 39, '2024-10-01', 'Present'),
(40, 40, '2024-10-01', 'Leave'),
249
250
251
         (41, 41, '2024-10-01', 'Present'),
         (42, 42, '2024-10-01', 'Absent'),
252
         (43, 43, '2024-10-01', 'Present'),
253
         (44, 44, '2024-10-01', 'Leave'),
254
         (45, 45, '2024-10-01', 'Absent'),
255
         (46, 46, '2024-10-01', 'Present'),
256
         (47, 47, '2024-10-01', 'Leave'),
257
         (48, 48, '2024-10-01', 'Present'),
258
         (49, 49, '2024-10-01', 'Absent'),
259
260
         (50, 50, '2024-10-01', 'Present');
261
262
    -- Insert Data into Project Table
    INSERT INTO Project (ProjectID, ProjectName, StartDate, EndDate,
                                                                                         P
       ProjectManagerID)
264
    VALUES (1, 'Project Alpha', '2024-01-01', '2024-12-31', 1),
265
            (2, 'Project Beta', '2024-02-01', '2024-12-31', 2),
            (3, 'Project Gamma', '2024-03-01', '2024-12-31', 3),
266
            (4, 'Project Delta', '2024-04-01', '2024-12-31', 4),
            (5, 'Project Epsilon', '2024-05-01', '2024-12-31', 5);
268
269
270
    -- Insert Data into Project Allocation Table
271 INSERT INTO ProjectAllocation (AllocationID, EmployeeID, ProjectID,
       AllocationDate)
272 VALUES
273
         (1, 1, 1, '2024-01-01'),
274
         (2, 2, 1, '2024-01-02'),
275
         (3, 3, 1, '2024-01-03'),
         (4, 4, 2, '2024-02-01'),
276
277
         (5, 5, 2,
                   '2024-02-05'),
278
         (6, 6, 2,
                   '2024-02-10'),
279
         (7, 7, 3, '2024-03-01'),
280
         (8, 8, 3, '2024-03-02'),
```

```
...RCJ360\Workplace\Employee Management System\Schema Creation Data Insertion.sql 7
281
         (9, 9, 3, '2024-03-05'),
         (10, 10, 4, '2024-04-01'),
282
         (11, 11, 4, '2024-04-05'),
283
284
         (12, 12, 4, '2024-04-10'),
         (13, 13, 5, '2024-05-01'),
285
         (14, 14, 5, '2024-05-03'),
286
         (15, 15, 5, '2024-05-07'),
287
         (16, 16, 1, '2024-06-01'),
288
        (17, 17, 1, '2024-06-02'),
289
290
         (18, 18, 2, '2024-07-01'),
         (19, 19, 2, '2024-07-02'),
291
         (20, 20, 3, '2024-08-01'),
292
293
        (21, 21, 3, '2024-08-02'),
        (22, 22, 4, '2024-09-01'),
294
        (23, 23, 4, '2024-09-05'),
295
         (24, 24, 5, '2024-10-01'),
296
         (25, 25, 5, '2024-10-02'),
297
298
        (26, 26, 1, '2024-11-01'),
299
        (27, 27, 2, '2024-11-03'),
300
        (28, 28, 3, '2024-12-01'),
        (29, 29, 4, '2024-12-05'),
301
        (30, 30, 5, '2024-12-10');
302
303
304 -- Retrieving All Records From Each Table for Verification and Analysis
305
306 -- View All Departments
307 SELECT * FROM Department;
309 -- View All Job Titles
310 SELECT * FROM JobTitle;
311
312 -- View All Employees with Associated Details
313 SELECT * FROM Employee;
314
315 -- View Salary Information for Each Employee
316 SELECT * FROM Salary;
317
318 -- View Attendance Records of Employees
319 SELECT * FROM Attendance;
320
321 -- View Details of Projects
322 SELECT * FROM Project;
324 -- View Employee to Project Allocations
325 SELECT * FROM ProjectAllocation;
```