

Creating OFFICE TABLE

-- Employee Table

```
Create Table employee(  
    emp_id INT PRIMARY KEY,  
    first_name varchar(30),  
    last_name varchar(30),  
    birth_date DATE,  
    sex varchar(2),  
    salary INT,  
    super_id INT,  
    branch_id INT
```

```
);
```

```
Describe employee;
```

-- Branch Table

```
Create Table Branch(  
    branch_id INT PRIMARY KEY,  
    branch_name varchar(30),  
    mgr_id INT ,  
    mgr_start_date DATE,  
    Foreign Key(mgr_id) references employee(emp_id) ON DELETE SET NULL  
);
```

```
/* On deleter set null will set value of the deleted entity as NULL, should use this when enti  
ty  
    is listed as Foreign Key */
```

```
Describe branch
```

```
ALTER Table employee  
ADD FOREIGN KEY(branch_id) references Branch(branch_id)  
ON DELETE SET NULL;
```

```
ALTER TABLE employee  
ADD FOREIGN KEY(super_id) references employee(emp_id)  
ON DELETE SET NULL;
```

```
DESCRIBE employee;
```

-- Client Table

```
CREATE TABLE Client(  
    client_id INT PRIMARY KEY,  
    client_name varchar(30),  
    branch_id INT,  
    FOREIGN KEY(branch_id) references Branch(branch_id)
```

```

);

DESCRIBE Client;

-- Works_With Table

CREATE TABLE Works_With(
    emp_id int ,
    client_id int ,
    PRIMARY KEY(emp_id, client_id),
    total_sales INT,
    FOREIGN KEY(emp_id) REFERENCES employee(emp_id) ON DELETE CASCADE,
    FOREIGN KEY(client_id) REFERENCES Client(client_id) ON DELETE CASCADE
);

/* ON DELETE CASCADE removes an entire row where the entity resides, should use when the desired
entity which is to be removed is Primary Key as Primary key cant be set to NULL */

DESCRIBE Works_With;

-- Branch Suppliers Table

CREATE TABLE Branch_Supplier(
    branch_id INT,
    supplier_name varchar(30),
    supply_type varchar(30),
    PRIMARY KEY(branch_id, supplier_name),
    FOREIGN KEY(branch_id) REFERENCES Branch(branch_id)
);

DESCRIBE Branch_Supplier;

ALTER TABLE Branch_Supplier
ADD FOREIGN KEY(branch_id) REFERENCES Branch(branch_id) ON DELETE CASCADE;

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-- Inserting Values Corporate

INSERT INTO employee VALUES(100, 'David', 'Wallace', '1967-11-17', 'M', 250000, NULL, NULL);

INSERT INTO Branch VALUES(1, 'Corporate', 100, '2006-02-09');

UPDATE employee
SET branch_id = 1
WHERE emp_id = 100;

INSERT INTO employee VALUES(101, 'Jan', 'Levison', '1961-05-11', 'F', 110000, 100, 1);

```

-- Scranton

INSERT INTO employee VALUES(102, 'Michel', 'Scott', '1964-03-15', 'M', 75000, 100, NULL);

INSERT INTO Branch VALUES(2, 'Scranton', 102, '1992-04-06');

UPDATE employee
SET branch_id = 2
WHERE emp_id = 102;

SELECT * FROM employee;

SELECT * FROM Branch;

INSERT INTO employee VALUES(103, 'Angela', 'Martin', '1971-06-25', 'F', 63000, 102, 2);

INSERT INTO employee VALUES(104, 'Kelly', 'Kapoor', '1980-02-05', 'F', 55000, 102, 2);

INSERT INTO employee VALUES(105, 'Stanley', 'Hudson', '1958-02-19', 'M', 69000, 102, 2);

INSERT INTO employee VALUES(106, 'Dwight', 'Schrute', '1966-05-23', 'M', 70000, 102, 2);

-- Stamford

INSERT INTO employee VALUES(107, 'Josh', 'Porter', '1969-09-05', 'M', 78000, 100, NULL);

INSERT INTO branch VALUES(3, 'Stamford', 107, '1998-02-13');

UPDATE employee
SET branch_id = 3
WHERE emp_id = 107;

INSERT INTO employee VALUES(108, 'Andy', 'Bernard', '1973-07-22', 'M', 65000, 107, 3);

INSERT INTO employee VALUES(109, 'Jim', 'Halpert', '1978-10-01', 'M', 71000, 107, 3);

-- Branch Suppliers

INSERT INTO branch_supplier VALUES(2, 'Hammer Mill', 'Paper');

INSERT INTO branch_supplier VALUES(2, 'Uni-ball', 'Writing Utensils');

INSERT INTO branch_supplier VALUES(3, 'Patriot Paper', 'Paper');

INSERT INTO branch_supplier VALUES(2, 'J.T. Forms & Labels', 'Custom Forms');

INSERT INTO branch_supplier VALUES(3, 'Uni-ball', 'Writing Utensils');

INSERT INTO branch_supplier VALUES(3, 'Hammer Mill', 'Paper');

INSERT INTO branch_supplier VALUES(3, 'Stamford Lables', 'Custom Forms');

-- CLIENT

INSERT INTO client VALUES(400, 'Dunmore Highschool', 2);

INSERT INTO client VALUES(401, 'Lackawana Country', 2);

INSERT INTO client VALUES(402, 'FedEx', 3);

INSERT INTO client VALUES(403, 'John Daly Law, LLC', 3);

INSERT INTO client VALUES(404, 'Scranton Whitepages', 2);

INSERT INTO client VALUES(405, 'Times Newspaper', 3);

INSERT INTO client VALUES(406, 'FedEx', 2);

```
-- WORKS_WITH
```

```
INSERT INTO works_with VALUES(105, 400, 55000);  
INSERT INTO works_with VALUES(102, 401, 267000);  
INSERT INTO works_with VALUES(109, 402, 22500);  
INSERT INTO works_with VALUES(108, 403, 5000);  
INSERT INTO works_with VALUES(109, 403, 12000);  
INSERT INTO works_with VALUES(105, 404, 33000);  
INSERT INTO works_with VALUES(108, 405, 26000);  
INSERT INTO works_with VALUES(102, 406, 15000);  
INSERT INTO works_with VALUES(105, 406, 130000);
```