

# SQL Practice Questions

## Store Procedure with 2 Parameter -

### SP Structure -

```
Create Proc SP_Name  
As  
Begin  
sql_Statement  
Go
```

### Example -

```
Create PROC SelectAllCustomers @City nvarchar(20), @postalCode nvarchar(20)  
As  
Select * from Customer where @City = city AND @postalCode = postCpde  
Go
```

```
exec SelectAllCustomers @City='Pune', @postalCode ='411057'
```

---

## Joins

### 1. Inner Join

Table 1 - Product  
Table 2 - Category

```
Select name, address  
From Products  
Inner Join Category  
On Products.Id = Category.Id
```

### 2. Left (Outer) Join

Table 1 - Customer  
Table 2 - Orders

```
Select Customer.name, Orders.Id  
From Customer  
Left Inner Join Orders  
On Customer.CustomerId = Orders.CustomerId
```

### Result:

CustomerName	OrderID
Alfreds Futterkiste	
Ana Trujillo Emparedados y helados	10308

# SQL Practice Questions

## 3. Right (Outer) Join

Table 1 - Orders

Table 2 - Employees

```
Select Orders.Id, Employees.LastName, Employees.FirstName
From Orders
Right Inner Join Employees
On Orders.EmployeeId= Employees.EmployeeId
Order By Orders.OrderId
```

Result:

OrderID	LastName	FirstName
	West	Adam
10248	Buchanan	Steven
10249	Suyama	Michael

## 4. Full (Outer Join)

Table 1 - Customer

Table 2 - Orders

```
Select Customer.name, Orders.Id
From Customer
Full Inner Join Orders
On Customer.CustomerId = Orders.CustomerId
```

## Self Join

[Self Join Example](#)

Table -

```
CREATE TABLE emp_manager (
  emp_id INT,
  emp_name VARCHAR(50),
  salary INT,
  manager_id INT
);
```

```
INSERT INTO emp_manager VALUES
(1, 'Ankit', 10000, 4),
(2, 'Mohit', 15000, 5),
(3, 'Vikas', 10000, 4),
```

# SQL Practice Questions

```
(4, 'Rohit', 5000, 2),  
(5, 'Mudit', 12000, 6),  
(6, 'Agam', 12000, 2),  
(7, 'Sanjay', 9000, 2),  
(8, 'Ashish', 5000, 2);
```

Self Join Query -

```
select e. emp_id, e.emp_name, e.salary  
from emp_manager e  
Left Inner Join emp_manager m  
On e.emp_id = m.manager_id  
where e.Salary > m.Salary
```

Cross Join

```
select p.name, c.color, s.size  
from Product p  
cross join  
color c  
Cross join  
Size s
```