

# APT1050A

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## Week 5 Lab Test : Operators

Run queries against tables in your own database using the operators OR, AND, BETWEEN, IN

### i. To retrieve from the various tables or views all the records where:

#### a. Customer is based in one city or the other

```
-- Retrieving customers based on one city or the other using "OR"
```

```
SELECT *  
FROM tCustomer  
WHERE City = 'East Brisbane' OR City = 'Sydney'
```

```
-- Retrieving customers based on one city or the other using "IN"
```

```
SELECT *  
FROM tCustomer  
WHERE City IN ('East Brisbane', 'Sydney')
```

#### b. Orders created between certain dates.

```
SELECT *  
FROM tOrder  
WHERE OrderDate BETWEEN '2003-05-01' AND '2003-08-01';
```

```
-- Joining tables here. --
```

#### c. Customer is based in *East Brisbane* and has bought productID 753

```
SELECT CustID, FirstName, LastName, city, tOrderDetail.ProductID  
FROM tCust  
INNER JOIN tOrder  
ON tCust.CustID = tOrder.CustomerID  
INNER JOIN tOrderDetail
```

```
ON tOrder.SalesOrderID = tOrderDetail.SalesOrderID
WHERE City = 'Nairobi' AND tOrderDetail.ProductID = 1
```

**d. Customer is based in either *East Brisbane* or *Goulburn* and has bought productID 753**

```
Select Distinct FirstName, LastName, City, tOrder.CustomerID, City,
tOrderDetail.SalesOrderID, tOrderDetail.ProductID
From tOrder
INNER JOIN tOrderDetail
ON tOrder.SalesOrderID = tOrderDetail.SalesOrderID
INNER JOIN tCust
ON tOrder.CustomerID = tCust.CustId
INNER JOIN tProduct
ON tOrderDetail.ProductID = tproduct.ProductID
where (City = 'Nairobi' or City = 'Kisumu')
AND tOrderDetail.ProductID = 102
```

**e. Orders for productIDs 751, 752, and 753 bought by customers living in the city of *Bellingham*.**

```
SELECT tOrder.SalesOrderID, OrderDate, CustomerID, tProduct.ProductID
FROM tOrder
INNER JOIN tCust
ON tOrder.CustomerID = tCust.CustID

INNER JOIN tOrderdetail
ON tOrder.SalesOrderID = tOrderdetail.SalesOrderID

INNER JOIN tProduct
ON tOrderdetail.ProductID = tProduct.ProductID

WHERE
    tCust.City = 'Dallas'
    AND tProduct.ProductID IN (420, 402, 404)
```

**f. ProductID 751 was bought during *july 2015***

```
SELECT tORDERS.OrderID, ProductID, OrderDate
```

```
FROM tORDERS
INNER JOIN tORDER_ITEMS
ON tORDERS.OrderID = tORDER_ITEMS.OrderID
WHERE ProductID = 1010 and OrderDate = '2025-09-04'
```

ii. Use a subquery to return the orders records from.torder where the order quantity in torderdetail is greater than 90.

```
SELECT * FROM tOrder
WHERE SalesOrderID IN (SELECT SalesOrderID FROM tOrderDetail
                        WHERE OrderQty > 3)
```