### Practical 16

1. Get a list of all customers with their address starting with BE.

Here is the coding written into the SQL window within PHP my Admin.

SELECT \* FROM customer

WHERE Address LIKE 'Be%';

Results of the Query within php my Admin



2. Get a list of all customers with their address within any characters followed by f and then by any characters.

This shows the SQL Query source code in PHPMyAdmin

SELECT \* FROM customer

WHERE Address LIKE '%f%';

Result from the SQL Query.



3. Create your own scenarios that you can use Like operator and Wildcards.

Return customer information for customers whos address begins with O

SQL Sourcecode.

**SELECT \* FROM customer** 

WHERE Address like 'O%';

## Result when query is run



Return all from Item Table where itemname is b\_r\_

**SQL Source Code** 

SELECT \* FROM item

WHERE ItemName LIKE 'B\_r\_';

## Result from the query being run



Return item detail where ItemName contains APL

**SQL Source Code** 

SELECT \* FROM item

WHERE ItemName LIKE '%apl%';

### Result



4. Get All items information for item pad, diary or pencil

**SQL Source Code** 

SELECT \* FROM item

WHERE ItemName IN('pad', 'diary', 'pencil');

## Results of the SQL Query



5. Get order number of item quantity between 2 and 10

SQL Source Code:

SELECT ONumber from orderline

WHERE Quantity between 2 and 10;



6. Get Order number of item quantity not between 2 and 10

SQL SOURCE CODE:

SELECT ONumber from orderline

WHERE Quantity not between 2 and 10;

### Results



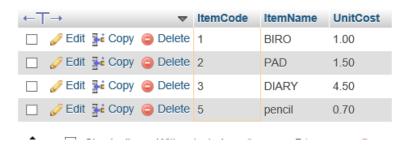
7. Get all items information if the items have been ordered

SQL Source Code:

SELECT \* FROM item

where item.ItemCode in

(SELECT orderline.ItemCode from orderline);



8. Get all item's information if the items have not been ordered

SQL Source Code

SELECT \* FROM item

WHERE item.ItemCode not IN

(SELECT orderline.itemcode from orderline);

## Result

← <del></del> <del>+</del> → ▼	ItemCode	ItemName	UnitCost
☐ Ø Edit ¾ Copy ⊜ Delete	4	STAPLER	5.00

9. Try the examples from page 11 to 22

Page 11

Source Code

SELECT \* FROM item

WHERE unitcost not between 1 and 3;

### Result

<b>←</b>	ItemCode	ItemName	UnitCost
Edit 1 Copy  Delete	3	DIARY	4.50
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☐    Ø Edit    Gopy  Opelete	5	pencil	0.70

Page 12

Source Code

SELECT \* FROM item WHERE

(unitcost between 1 and 3)

and (itemcode not in(1,2));

#### Results

## ItemCode ItemName UnitCost

Page 13

Source Code

SELECT \* FROM item

where item.ItemCode in

(select orderline.itemcode from orderline);

#### Result



Page 14

Source Code

SELECT \* from item

WHERE item.ItemCode not IN

(select orderline.ItemCode from orderline);



Page 15

Source Code

SELECT c.custcode FROM customer c WHERE EXISTS (

SELECT orders.CustCode FROM item, orders, orderline

WHERE item.ItemName LIKE '%pen%' AND item.ItemCode = orderline.ItemCode AND orders.ONumber = orderline.ONumber);

Result:



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Source Code:

SELECT ItemName FROM item

WHERE item.UnitCost = (SELECT MAX(unitcost) FROM item);

Result:



Page 18

Source Code

SELECT ONumber, MAX(q) FROM (

SELECT onumber, SUM(quantity) AS q FROM orderline GROUP BY ONumber

)sum\_view;

ONumber	MAX(q)
523	55

Page 21

Source Code

 ${\tt SELECT\ Orders. ONumber,\ customer. CustName,\ orders. ODate}$ 

FROM orders

INNER JOIN customer ON

orders.CustCode=customer.CustCode;

### Result

ONumber	CustName	ODate
001	James	2018-11-29
002	Mina	2018-11-28
523	J WHITE	2015-05-12
524	B McCann	2015-05-12
525	E Smyth	2015-05-15
526	J WHITE	2015-05-17
527	B McCann	2015-05-17

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Source Code

SELECT c.CustCode, c.CustName, o.ONumber

FROM customer c INNER JOIN orders ON

c.CustCode = o.CustCode;

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CustCode	CustName	ONumber
101	J WHITE	523
101	J WHITE	526
102	B McCann	524
102	B McCann	527
103	E Smyth	525
C1	James	001
C2	Mina	002

10. Get order number and their price (Quantity \* UnitCost)

Source Code

SELECT orderline.ONumber, SUM(item.UnitCost\*orderline.Quantity)

FROM orderline

INNER JOIN item ON item.ItemCode = orderline.ItemCode

**GROUP BY ONumber** 

#### Result

+ Options	
ONumber	SUM(item.UnitCost*orderline.Quantity)
523	43.5
524	18
525	57.5
526	20
527	43.5

11. Get Order Number with the maximum price (Quanity \* unitcost)

**SQL Source Code** 

SELECT orderline.ONumber, MAX(item.UnitCost\*orderline.Quantity)

FROM orderline

INNER JOIN item ON item.ltemCode = orderline.ltemCode;

Result

ONumber	MAX(item.UnitCost*orderline.Quantity)
523	50

12. Get customer's name whose order has maximum quanity for an item.

**SQL** source Code

SELECT DISTINCT customer.CustName, SUM(orderline.Quantity)

FROM customer

INNER JOIN orders ON orders.CustCode = customer.CustCode

INNER JOIN orderline ON

orders.ONumber = orderline.ONumber

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WHERE orderline.Quantity = (

SELECT MAX(Quantity) FROM orderline);

CustName	SUM(orderline.Quantity)
E Smyth	50