

MySQL Workbench Queries

1. from database return all the products: name, unit price and new price (unit price * 1.1)

```
SELECT name, unit_price, unit_price * 1.1 AS new_price  
FROM products
```

2. get all the orders placed this year (2019)

```
SELECT *  
FROM orders  
WHERE order_date >= "2019-01-01"
```

3. from order_items table get the items for ordes #6 where the total price is greater than 30

```
SELECT *  
FROM order_items  
WHERE order_id = 6 AND unit_price * quantity > 30
```

4. return products with quantity in stock equal to 49, 38, 72

```
SELECT *  
FROM products  
WHERE quantity_in_stock IN (49, 38, 72)
```

5. return customers born between 1/1/1990 and 1/1/2000

```
SELECT *  
FROM customers  
WHERE birth_date BETWEEN "1990-01-01" AND "2000-01-01"
```

6. get customers whose addresses contain TRAIL or AVENUE

```
SELECT *  
FROM customers  
WHERE address LIKE '%trail%' OR  
address LIKE '%avenue%'
```

7. get the customers whose first names are ELKA or AMBUR, last names end with EY or ON, last names start with MY or contains SE, last names contain B followed by R or U

```
SELECT *
FROM customers
-- WHERE first_name REGEXP 'ELKA|AMBUR'
-- WHERE last_name REGEXP 'ey$|on$'
-- WHERE last_name REGEXP '^my|se'
-- WHERE last_name REGEXP 'b[ru]'
```

8. get orders that are not shipped

```
SELECT *
FROM orders
WHERE shipper_id IS NULL
```

9. order descendent by total price the orders with id = 2

```
SELECT *, quantity * unit_price AS total price
FROM order_items
WHERE order_id = 2
ORDER BY total price DESC
```

10. get the top three loyal customers

```
SELECT *
FROM customers
ORDER BY points DESC
LIMIT 3
```

11. Produce a report that shows the payments with more details such as name of the clients and the payment method

```
USE sql_invoicing;
SELECT
    p.date,
    p.invoice_id,
    p.amount,
    c.name,
    pm.name
FROM payments p
JOIN clients c ON c.client_id = p.client_id
JOIN payment_methods pm ON p.payment_method = pm.payment_method_id
```

12. from database get the columns that shows details about the client, amount spent, the payment method' and the date when they ordered

```
USE sql_invoicing;
SELECT
    p.date,
    p.amount,
    c.name AS client,
    pm.name AS payment_method
FROM payments p
JOIN clients c USING (client_id)
JOIN payment_methods pm
    ON pm.payment_method_id = p.payment_method
```

13. write a query where you specify the first name of the clients, their id, the points they have and create a new column named type to atribue them the title of bronze less 2000 points, silver 2000-3000 and gold greater than 3000

```
SELECT
    customer_id,
    first_name,
    points,
    'Bronze' AS type
FROM customers
WHERE points < 2000
UNION
SELECT
    customer_id,
    first_name,
    points,
    'Silver' AS type
FROM customers
WHERE points BETWEEN 2000 AND 3000
UNION
SELECT
    customer_id,
    first_name,
    points,
    'Gold' AS type
FROM customers
WHERE points > 3000
ORDER BY first_name
```

14. create a new table called invoices archive as a copy of invoices, keep only the clients that did the payment, instead of client id show the client name

```
CREATE TABLE invoices_archived AS
SELECT
    i.invoice_id,i.number,
    c.name AS client,
    i.invoice_total,i.payment_total,
    i.invoice_date, i.payment_date, i.due_date
FROM invoices i
JOIN clients c
    USING (client_id)
WHERE payment_date IS NOT NULL
```

15.update the comment for customers that has more than 3000 points with gold customers

```
UPDATE orders
SET comments = 'gold customer'
WHERE customer_id IN
    (SELECT customer_id
    FROM customers
    WHERE points > 3000)
```