**-- DQL Tasks**

-- 1) How many orders were received for products with a category id = 2

ANS: SELECT \* FROM `orders` WHERE id = 2;

-- 2) How many orders were received with a category\_id of either 2, 4, or 5

ANS: SELECT \* FROM `orders` WHERE `category\_id` IN (2,4,5);

-- 3) How many order are there with a price over £35.00

ANS: SELECT \* FROM `orders` WHERE `price` > 35;

-- 4) How many orders are there where the customer has a date of birth before 1st January 1980 and want to receive the newsletter

ANS: SELECT \* FROM `orders` WHERE `date\_of\_birth` < '1980-01-01' AND `newsletter` = '1';

-- 5) How many customers named Davenport placed orders?

ANS: SELECT \* FROM `orders` WHERE `customer\_surname` LIKE 'Davenport%';

-- 6) Which customer with a firstname starting with 'Br', had the most orders

ANS: SELECT customer\_firstname,count(id) as number\_of\_order from orders where customer\_firstname LIKE 'Br%' group by customer\_firstname ORDER BY number\_of\_order DESC Limit 1;

-- 7) List all orders with products from category 3 by order of price, highest first.

ANS: SELECT \* FROM `orders` WHERE `category\_id` = 3 ORDER BY `price` DESC;

-- 8) Select the following fields from all orders (trans\_date, price, promo\_code) renaming the colum (field) headings ('Transaction Date', 'Price' & 'Promotion Code')

ANS: SELECT `trans\_date` as `Transaction Date`, `price` as `Price`, `promo\_code` as `Promotion Code` FROM `orders`;

-- 9) Select the following fields (customer\_surname, customer\_firstname, county) from all orders, with customer names in a single field named 'Customer Name' and in the format <Surname>, <Firstname>, with surname capitalised. The county field is to be renamed 'County'.

ANS: SELECT CONCAT(customer\_firstname, ' ', upper(customer\_surname))as 'Customer Name', county as County FROM `orders`;

-- 10) Select the average price, minimum price & maximum price for each category.

ANS: SELECT `category\_id`, AVG(`price`), MIN(`price`), MAX(`price`) FROM `orders`

GROUP BY `category\_id`;

-- 11) Select the category\_name (labelled 'Category', number of sales (labelled 'Total Orders') & total sales (labelled 'Total Sales') for each category.

ANS: SELECT category\_name, count(orders.id) as "Total order", sum(price) as "Total sales" from orders join categories on (orders.category\_id=categories.id) group by category\_name;

-- 12) List all orders with the following fields (with the labls given) orders.trans\_date('Transaction Date'), categories.category\_name('Category'), orders.customer\_surname('Surname'), orders.customer\_firstname('Firstname'), orders.price('Order Price'), categories.category\_name('Category'), promotions.discount('Discounted by')