DQL Tasks

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

SELECT \* FROM `orders` WHERE category\_id = 2；

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

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

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

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

SELECT \* FROM `orders` WHERE `date\_of\_birth` < '1980-01-01';

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

SELECT \* FROM `orders` WHERE `customer\_surname` = 'Davenport' or `customer\_firstname` = 'Davenport';

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

SELECT \* FROM `orders` WHERE `customer\_firstname` Like '%Br%';

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

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')

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'.

SELECT UPPER(`customer\_surname`), LOWER(`customer\_firstname`), CONCAT(`customer\_firstname`, ' ', `customer\_surname`) as 'name', `county` as 'County' FROM `orders`;

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

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.

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')

SELECT `trans\_date`as'Transaction Date',`category\_name` as 'Category',`customer\_surname` as 'Surname',`customer\_firstname` as 'Firstname',`price`as'Order Price',`discount`as'Discounted by' from( `orders`left join`categories`on(`orders`.`category\_id` = `categories`.`id`))left join`promotions`on`orders`.`promo\_code`=`promotions`.`code`;