DQL Tasks

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

SELECT `category\_id`=2, COUNT(\*) FROM `orders` GROUP BY `category\_id`=2;

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

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

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

SELECT 'orders', COUNT(\*) FROM `orders` WHERE `price` > '35' GROUP BY 'orders';

-- 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' AND `newsletter` = '1';

-- 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%' ORDER BY `price` DESC;

-- 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 CONCAT(`customer\_firstname`, `customer\_surname`) AS `Customer 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\_id`, 'category\_name'as 'Category','number of sales'as'Total Orders','total sales'as 'Total Sales'FROM `orders` GROUP BY `category\_id`;

-- 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 'Transaction Date','Category', 'Surname', 'Firstname', 'Order Price', 'Category', 'Discounted by'FROM `orders`;