--

-- SQL Query

--

-- using the DDL in the file final\_exercise\_ddl.sql, perfom the following -

-- DQL Tasks

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

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

SELECT COUNT(id) 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);

SELECT COUNT(id) 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';

SELECT COUNT(id) 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' AND `newsletter` = '1';

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

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

SELECT COUNT(id) 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 CONCAT(UPPER(`customer\_surname`),' ', customer\_firstname) 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),MAX(price),MIN(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 categories.category\_name AS 'Category', COUNT(orders.id) AS 'Total Orders', SUM(orders.price) AS 'Total Sales' FROM categories,orders WHERE categories.id = orders.category\_id GROUP BY categories.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 orders.trans\_date AS 'Transaction Date', categories.category\_name AS 'Category', orders.customer\_surname AS 'Surname', orders.customer\_firstname AS 'Firstname', orders.price AS 'Order Price', categories.category\_name AS 'Category', promotions.discount AS 'Discounted by' FROM categories, orders, promotions;