

## CIND 119: Introduction to Big Data Analytics Assignment 2 (15% of the final grade)

### Querying an RDBMS database using SQLite Studio

Complete this assignment using SQLite Studio.

**Question 1:** Create an SQLite database called "sample".

**Question 2:** Within the "sample" database, create a table called "test\_data" and load the following data into the table: (5 points)

Order_ID	Product_Name	Category	Quantity	Price
1	Laptop	Electronics	5	500
2	Headphones	Electronics	3	100
3	Chair	Furniture	2	200
4	Desk	Furniture	1	400
5	iPhone	Electronics	2	800
6	Book	Books	10	20
7	Shoes	Apparel	4	150
8	T-shirt	Apparel	7	50
9	Watch	Apparel	1	250
10	Blender	Home Appliance	1	300
11	Fridge	Home Appliance	1	1200
12	Cookware Set	Home Appliance	3	100
13	Vacuum Cleaner	Home Appliance	1	350
14	Keyboard	Electronics	2	75
15	Monitor	Electronics	1	200

**Question 3:** Write SQL queries to select/compute data from the "test\_data" table. (2 points each)

- Select the Product\_Name and Price of products where the Category is 'Electronics'.
- Compute the average price of products in the 'Apparel' category.
- Select all fields of products where the price is less than 200.
- Select the Order\_ID and Product\_Name of products where the Quantity is equal to 1.
- Compute the total revenue (Price \* Quantity) for each Category.