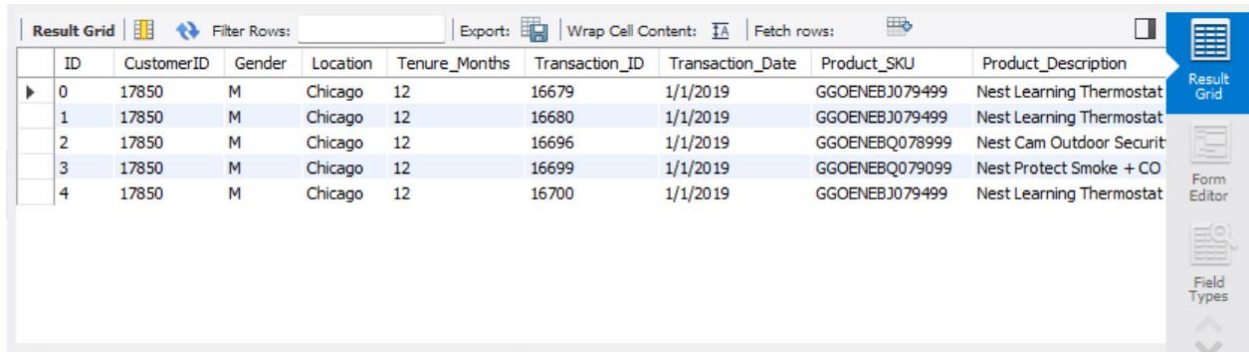


MySQL Queries and Output : Task 4

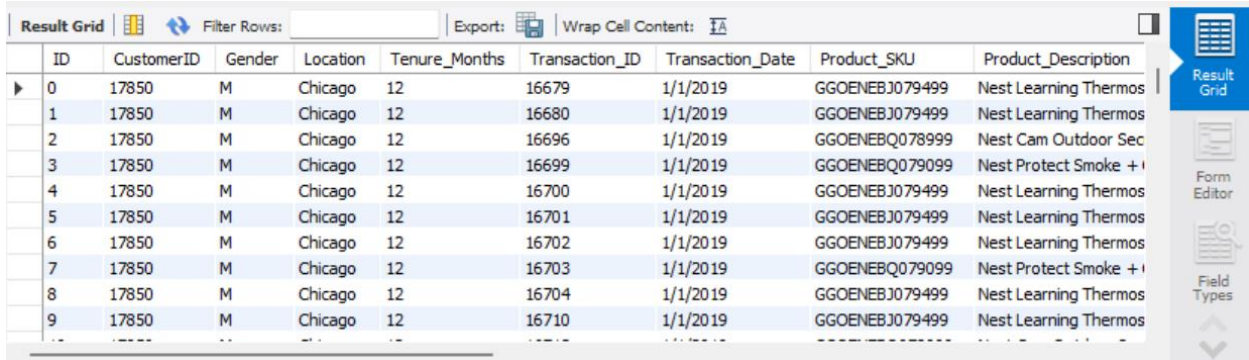
```
SELECT * FROM file_updated limit 5;
```



The screenshot shows a database application interface with a 'Result Grid' tab selected. The grid displays 5 rows of data with the following columns: ID, CustomerID, Gender, Location, Tenure_Months, Transaction_ID, Transaction_Date, Product_SKU, and Product_Description. The data is as follows:

ID	CustomerID	Gender	Location	Tenure_Months	Transaction_ID	Transaction_Date	Product_SKU	Product_Description
0	17850	M	Chicago	12	16679	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
1	17850	M	Chicago	12	16680	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
2	17850	M	Chicago	12	16696	1/1/2019	GGOENEBQ078999	Nest Cam Outdoor Security
3	17850	M	Chicago	12	16699	1/1/2019	GGOENEBQ079099	Nest Protect Smoke + CO
4	17850	M	Chicago	12	16700	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat

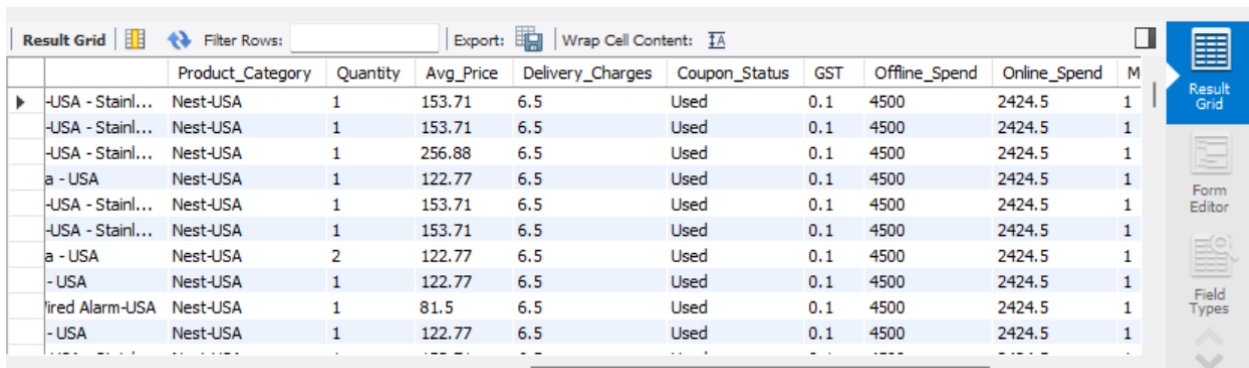
```
SELECT * FROM file_updated WHERE Location = 'Chicago';
```



The screenshot shows the same database application interface, but the result grid now displays 9 rows of data, all filtered by Location = 'Chicago'. The columns and data are as follows:

ID	CustomerID	Gender	Location	Tenure_Months	Transaction_ID	Transaction_Date	Product_SKU	Product_Description
0	17850	M	Chicago	12	16679	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
1	17850	M	Chicago	12	16680	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
2	17850	M	Chicago	12	16696	1/1/2019	GGOENEBQ078999	Nest Cam Outdoor Security
3	17850	M	Chicago	12	16699	1/1/2019	GGOENEBQ079099	Nest Protect Smoke + CO
4	17850	M	Chicago	12	16700	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
5	17850	M	Chicago	12	16701	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
6	17850	M	Chicago	12	16702	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
7	17850	M	Chicago	12	16703	1/1/2019	GGOENEBQ079099	Nest Protect Smoke + CO
8	17850	M	Chicago	12	16704	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat
9	17850	M	Chicago	12	16710	1/1/2019	GGOENEBJ079499	Nest Learning Thermostat

```
SELECT * FROM file_updated WHERE Coupon_Status = 'Used';
```



The screenshot shows the database application interface with the result grid displaying 10 rows of data, all filtered by Coupon_Status = 'Used'. The columns and data are as follows:

	Product_Category	Quantity	Avg_Price	Delivery_Charges	Coupon_Status	GST	Offline_Spend	Online_Spend	M
-USA - Stainl...	Nest-USA	1	153.71	6.5	Used	0.1	4500	2424.5	1
-USA - Stainl...	Nest-USA	1	153.71	6.5	Used	0.1	4500	2424.5	1
-USA - Stainl...	Nest-USA	1	256.88	6.5	Used	0.1	4500	2424.5	1
a - USA	Nest-USA	1	122.77	6.5	Used	0.1	4500	2424.5	1
-USA - Stainl...	Nest-USA	1	153.71	6.5	Used	0.1	4500	2424.5	1
-USA - Stainl...	Nest-USA	1	153.71	6.5	Used	0.1	4500	2424.5	1
a - USA	Nest-USA	2	122.77	6.5	Used	0.1	4500	2424.5	1
- USA	Nest-USA	1	122.77	6.5	Used	0.1	4500	2424.5	1
ired Alarm-USA	Nest-USA	1	81.5	6.5	Used	0.1	4500	2424.5	1
- USA	Nest-USA	1	122.77	6.5	Used	0.1	4500	2424.5	1

```
SELECT *, (Online_Spend + Offline_Spend) AS Total_Spend
```

```
FROM file_updated
```

```
ORDER BY Total_Spend DESC LIMIT 10;
```

Avg_Price	Delivery_Charges	Coupon_Status	GST	Offline_Spend	Online_Spend	Month	Coupon_Code	Discount_pct	Total_Spend
1.5	6.5	Clicked	0.1	4500	2928.55	1	ELEC10	10	7428.55
1.5	6.5	Clicked	0.1	4500	2928.55	1	ELEC10	10	7428.55
22.77	6.5	Used	0.1	4500	2928.55	1	ELEC10	10	7428.55
22.77	6.5	Not Used	0.1	4500	2928.55	1	ELEC10	10	7428.55
05.3	6.5	Clicked	0.1	4500	2928.55	1	ELEC10	10	7428.55
22.77	6.5	Used	0.1	4500	2928.55	1	ELEC10	10	7428.55
53.71	6.5	Used	0.1	4500	2928.55	1	ELEC10	10	7428.55
22.77	6.5	Clicked	0.1	4500	2928.55	1	ELEC10	10	7428.55
53.71	6.5	Clicked	0.1	4500	2928.55	1	ELEC10	10	7428.55
1.5	6.5	Clicked	0.1	4500	2928.55	1	ELEC10	10	7428.55

-- Total quantity sold per product category

```
SELECT Product_Category, SUM(Quantity) AS Total_Sold
```

```
FROM file_updated
```

```
GROUP BY Product_Category;
```

Product_Category	Total_Sold
Nest-USA	577
Apparel	2087

-- Average spend per city

```
SELECT Location, AVG(Online_Spend + Offline_Spend) AS Avg_Total_Spend
FROM file_updated GROUP BY Location;
```

Location	Avg_Total_Spend
Chicago	4823.0948093220595
California	5510.166654804275
New York	4666.266129032261
New Jersey	4790.5995
Washington DC	4613.78

-- Customers who spent more than the average

```
SELECT CustomerID, SUM(Online_Spend + Offline_Spend) AS Total_Spent
FROM file_updated
```

```
GROUP BY CustomerID HAVING Total_Spent > ( SELECT AVG(Online_Spend +
Offline_Spend) FROM file_updated );
```

CustomerID	Total_Spent
12431	30381.9
12510	38382.96
12583	6924.5
12626	20019.32
12673	29744.469999999998
12683	61190.099999999998
12779	60057.9600000000014
12791	6076.38
12855	10253.19
12872	95091.770000000002
13001	51523.8899999999985

```
CREATE VIEW high_spenders AS SELECT CustomerID, SUM(Online_Spend +
Offline_Spend) AS Total_Spent FROM file_updated GROUP BY CustomerID
HAVING Total_Spent > 5000; SELECT * FROM high_spenders;
```

CustomerID	Total_Spent
12431	30381.9
12510	38382.96
12583	6924.5
12626	20019.32
12673	29744.469999999998
12683	61190.099999999998
12779	60057.9600000000014
12791	6076.38
12855	10253.19
12872	95091.770000000002
13001	51523.8899999999985

```
CREATE INDEX idx_customer_id ON file_updated (CustomerID); CREATE
INDEX idx_location ON file_updated (Location);
```

```
-- Gender-based spending analysis SELECT Gender, AVG(Online_Spend) AS
Avg_Online, AVG(Offline_Spend) AS Avg_Offline FROM file_updated GROUP
BY Gender;
```

Gender	Avg_Online	Avg_Offline
M	1757.0694779116402	3024.0964
F	1895.6790239043721	3298.8048

```
SELECT a.CustomerID, a.Transaction_ID, b.First_Name, b.Email
```

```
JOIN customer_dataset AS b ON a.CustomerID = b.CustomerID;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
CustomerID	Transaction_ID	First_Name	Email
12872	37670	Katherine	rebeccabrown@hotmail.com
12872	37670	Katherine	rebeccabrown@hotmail.com
12872	37670	Katherine	rebeccabrown@hotmail.com
12872	37670	Katherine	rebeccabrown@hotmail.com
12872	37670	Katherine	rebeccabrown@hotmail.com
12872	37672	Katherine	rebeccabrown@hotmail.com
12872	37678	Katherine	rebeccabrown@hotmail.com
12872	37682	Katherine	rebeccabrown@hotmail.com
12872	37682	Katherine	rebeccabrown@hotmail.com
12872	37682	Katherine	rebeccabrown@hotmail.com