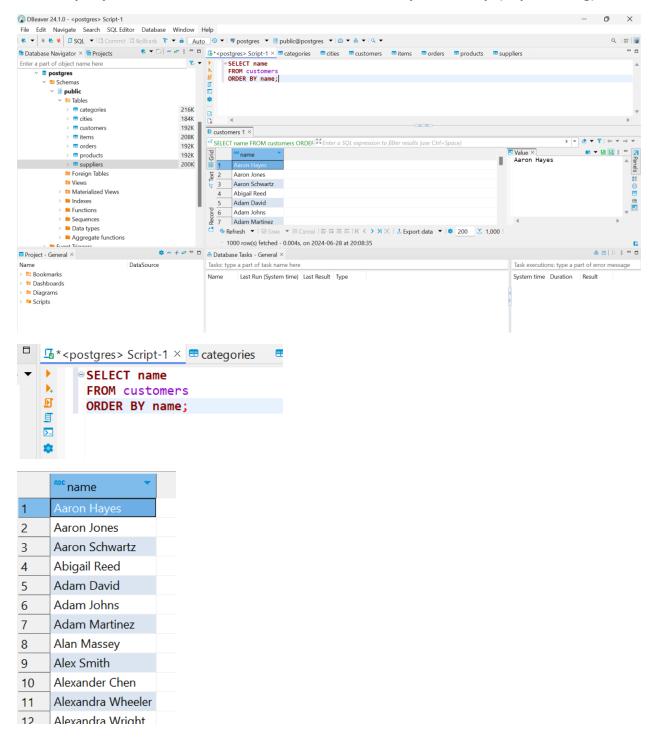# BWT Task-03 Exercise

Submitted By: ABRAR SAEED

Q1

Write a query to fetch all customer names and sort them alphabetically. (Topic Sorting)


```
SELECT name
FROM customers
ORDER BY name;
```

	name
1	Aaron Hayes
2	Aaron Jones
3	Aaron Schwartz
4	Abigail Reed
5	Adam David
6	Adam Johns
7	Adam Martinez
8	Alan Massey
9	Alex Smith
10	Alexander Chen
11	Alexandra Wheeler
12	Alexandra Wright

	name
991	William Carter
992	William Moore
993	William Moss
994	William Wilson DDS
995	William Wood
996	Yolanda King
997	Yolanda Torres
998	Yvette Baker
999	Zachary Haynes
1000	Zachary Martinez

Q2

Write a query to fetch all product names and their prices, sorted by price from low to high. (Topic Sorting)

```sql
SELECT name, price
FROM products
ORDER BY price;
```

products 1 ×

SELECT name, price FROM products

	name	price
1	deal	11.1
2	interview	12.37
3	step	12.72
4	especially	12.74
5	game	12.78
6	level	13.59
7	include	13.75
8	their	16.27
9	build	17.25
10	behavior	18.83

products 1 ×

`SELECT name, price FROM products OI`

	name	price
993	nice	496.7
994	property	497.71
995	apply	497.92
996	market	497.98
997	wonder	498.47
998	report	498.55
999	trouble	498.56
1000	performance	498.59

Q3

Write a query to fetch supplier names that start with the letter 'A' and sort them by their names. (Topic Sorting with Operators and Wildcards)

```
SELECT name
FROM suppliers
WHERE name LIKE 'A%'
ORDER BY name;
```

suppliers 1 ×

`SELECT name FROM suppliers WHERE` | Enter a SQL expr

	name
1	Acosta-Freeman
2	Adams-Roberts
3	Adams-Schwartz
4	Adams, Hull and Wise
5	Adams, Rojas and Morgan
6	Adkins and Sons
7	Aguilar-Carter

suppliers 1 ✕

SELECT name FROM suppliers WHERE ⤢ Enter a SQL expression to filter results (u

	ᴬᴮᶜ name ▼
41	Arroyo-Kelly
42	Austin-Joseph
43	Austin LLC
44	Avery-Warren
45	Avery, Perez and Blair
46	Ayala PLC

❖ Refresh ▼ ⊘ Save ▼ ⊠ Cancel ⫶ ⇥ ⇤ ⇥ ⇤ ⫶ |< < > >| ⌖ ⫶ ⬆ Export c

⋯ 46 row(s) fetched - 0.000s, on 2024-06-28 at 20:43:28

Q4

Write a query to fetch all items and sort them by their status, placing NULL values first.

```sql
SELECT *
FROM items
ORDER BY status IS NULL, status;
```

items 1 ✕

SELECT * FROM items ORDER BY statu ⤢ Enter a SQL expression to filter results (use Ctrl+Space)

	item_id	order_id	product_id	¹²³ amount	ᴬᴮᶜ status	ᴬᴮᶜ item_timestamp
1	55d21c57-d8a7-4c8e-96f1-af1c	6f66a611-407a-4851-b699-4ce	d03892f1-f8f3-44fc-bb86-e431	14.31	Delivered	2024-03-09 06:47:37.275443
2	8a2c9420-43b5-4b51-91aa-1fc	7ea54b60-64d2-4583-96df-bf4	5a49b5e1-a14d-4a84-b131-4b2	32.95	Delivered	2024-04-18 05:24:22.285073
3	72af47e3-9998-420a-86ed-56c	ddee01dc-20a1-42ff-a286-7124	7217ab96-f866-4c74-b9ae-9c3	86.44	Delivered	2024-03-31 20:51:49.228488
4	4b5a19b1-64be-41d7-ae74-a2!	b5e30740-1585-4ea6-9c99-cd6	f8366f6b-ecf1-4e75-935d-ab91	8.1	Delivered	2024-01-16 03:30:29.394309
5	0bdb0f27-6bf6-4e0c-9b49-9fe	411c82eb-100e-48fc-8095-befe	e6d06da3-c252-4117-9a45-6c6	56.5	Delivered	2024-04-19 16:04:29.456686
6	e7df11b8-2943-4e28-9168-12e	1170d4f6-9a0f-4de6-b0e5-f671	9ff2250b-0845-41a1-9ee4-b2b	77.22	Delivered	2024-04-11 04:17:19.372846
7	03f57e54-db61-4fbd-b59a-8d5	160a6358-7348-4e75-89dc-a37	3bc16381-bd29-4b7f-8366-3ec	51.07	Delivered	2024-06-01 14:44:57.709625
8	72f7d19f-5c38-473f-a712-ad35	ce967796-9486-406e-9955-6c5	dd9a1016-b858-4245-a173-dc!	55.03	Delivered	2024-04-05 13:47:09.495484
9	5932d11f-c4f2-4905-9ac5-bbf4	b12b51a7-2e8e-4aab-b272-9bl	4de9f1be-dfeb-4100-9463-566	75.21	Delivered	2024-03-26 23:18:04.295651
10	b0c67098-34ab-4a75-9664-86f	ab921bf1-dd01-4287-8577-57i	c7ba5802-ae48-4931-9aa4-8fc{	58.71	Delivered	2024-05-21 13:16:36.834831
11	6769f460-83a6-420e-b022-a78	156afbe2-e7e8-4f40-a2e5-7c13	f152fa7d-e8c4-4d31-b0ae-30c6	47.03	Delivered	2024-05-12 08:21:38.249196

❖ Refresh ▼ ⫶ ⊘ Save ▼ ⊠ Cancel ⫶ ⇥ ⇤ ⇥ ⫶ |< < > >| ⌖ ⫶ ⬆ Export data ▼ ⚙ 200 ⟱ 1,000 ⫶ ⋯ 1000 row(s) fetched - 0.007s (0.001s fetch), on 2024-06-28 at 20:46:03

⬦ Database Tasks - General ✕

items 1 ✕

SELECT * FROM items ORDER BY statu ⤢ Enter a SQL expression to filter results (use Ctrl+Space)

	item_id	order_id	product_id	¹²³ amount	ᴬᴮᶜ status	ᴬᴮᶜ item_timestamp
992	cdb3042e-cc60-4e64-94dd-ddf	79a434f8-20e1-4f5c-b5fe-bca5	699374a8-b6c9-4fab-b8cb-31c	32.65	Shipped	2024-01-27 20:04:11.667290
993	973be5b5-f6b2-4e63-85ae-78c	3cdc1d49-6133-459e-8ff6-3d7(	cec16ea8-1293-4c35-85ef-8963	79.81	Shipped	2024-01-31 16:51:17.451772
994	000c19ce-1ffc-4f29-ba74-97f4i	c739e5b1-b331-416c-9658-dec	11eb28b0-9ca7-4cc7-a662-268	17.48	Shipped	2024-04-09 07:54:32.129819
995	549ef112-4ac1-4dcb-aee5-687(	20a5d0bc-0165-4273-8d00-9c1	7b6e6e77-e168-45b4-98a9-35c	56.35	Shipped	2024-05-18 11:58:18.927054
996	5c0f9f89-1c94-44e6-b67f-bccf1	4c125d6e-1dea-4c04-9440-a57	68a13a29-8997-48ff-bb49-60a	30.93	Shipped	2024-01-23 08:27:33.071517
997	2bae7ea7-7bfd-4bc5-a459-6ed	a0aec782-0cbb-4fb8-a134-9d2	458a38a0-176c-4f38-a485-dc7!	97.48	Shipped	2024-02-17 20:17:39.072032
998	1d1611b4-cb25-4572-9061-3a!	296d0f28-3dd6-4c4e-b0c9-5a9	ae2b19b3-191c-47e6-8e9c-733	10.98	Shipped	2024-03-19 00:41:01.210661
999	8ee31a08-50cf-42d7-9b17-a90	3e23bd7b-6359-496f-b903-02(	d03411e4-ecb6-4b6b-ac7e-9e5	34.92	Shipped	2024-05-18 06:49:00.569997
1000	9a2e0203-0571-4872-bb64-1ef	d1df9132-0adf-4556-af3f-384e	cec16ea8-1293-4c35-85ef-8963	60.21	Shipped	2024-01-10 06:07:40.393991

❖ Refresh ▼ ⫶ ⊘ Save ▼ ⊠ Cancel ⫶ ⇥ ⇤ ⇥ ⫶ |< < > >| ⌖ ⫶ ⬆ Export data ▼ ⚙ 200 ⟱ 1,000 ⫶ ⋯ 1000 row(s) fetched - 0.007s (0.001s fetch), on 2024-06-28 at 20:46:03

Q5

Write a query to fetch all products, sort them first by category and then by price in descending order.

```sql
SELECT *
FROM products
ORDER BY category, price DESC;
```

products 1 ×

SELECT * FROM products ORDER BY categ... *Enter a SQL expression to filter results (use Ctrl+Space)*

	product_id	name	supplier_id	category	price	stock_available	status	product_createtimestamp
1	12ea3377-cca5-4965-a41c-9a3099:	of	3f89d404-d78f-4aca-8c67-ee4e434	a	302.68	979	InActive	13:42.3
2	494c69e7-db73-42fd-9eef-7880822	offer	01abe709-0567-47dc-ae92-3b077c	able	385.18	137	Active	42:25.9
3	b8adc046-eef0-4f58-9c7a-7c6f58a2	share	6252ec97-c226-4c94-8b70-7ce164;	able	76.71	283	InActive	36:47.8
4	a63e349b-fb6e-4222-aca0-507960:	wide	16157d6a-f40a-4140-b233-c8e5e8	about	398.27	851	Out of Stock	12:55.3
5	e61f1dad-1ec7-4114-aaf5-7a449f9	factor	c9a89c46-4f89-4cc4-a804-be28738	about	91.72	974	Out of Stock	51:01.2
6	2d61572a-ad68-4eb9-a327-cbde17	middle	f292cfe7-c77d-4dd4-8b75-b5eb72:	above	337.62	812	InActive	14:07.9
7	e37e126c-f0d4-4b67-8efc-5d4226z	door	7b539636-fcdb-4749-9e31-f9e38cc	above	281.2	275	InActive	40:26.1

Refresh ▾ ⊘ Save ▾ ⊠ Cancel |K < > >| 🔲 Export data ▾ ⚙ 200 ⌧ 200+   200 row(s) fetched - 0.006s, on 2024-06-28 at 20:48:55

Database Tasks - General ×

products 1 ×

SELECT * FROM products ORDER BY category, pric *Enter a SQL expression to filter results (use Ctrl+Space)*

	product_id	name	supplier_id	category	price	stock_available	status	product_createtimestamp
995	9e595f05-7947-485b-8256-22a212	yet	7cf51b9a-7c71-44c1-93d1-b6c4a2:	yeah	280.63	327	InActive	24:02.6
996	63b72960-b4e5-4f26-acaa-9e1eab{	number	46937336-1d26-4b41-ba08-7e993:	yes	66.04	357	Out of Stock	59:30.8
997	9e30a085-f969-401b-8f03-13eb92;	yes	08e2b063-f6fa-4ab1-90c9-e384fa1	your	145.65	391	InActive	30:40.4
998	69742e0a-b030-4db8-afe2-da951b	his	063f7075-f3c0-4408-8410-e1e955f	your	83.21	563	Out of Stock	03:18.4
999	42197397-eeb8-4e4d-a2de-8b6b2:	else	dfa51812-0525-4e46-97c1-5af12c2	yourself	393.01	252	InActive	42:16.1
1000	42be18ee-8c61-45ec-958a-2f0b99t	color	af08f764-b4c0-4148-a4d2-9e1caf8	yourself	306.76	375	Out of Stock	10:32.4

Refresh ▾ ⊘ Save ▾ ⊠ Cancel |K < > >| 🔲 Export data ▾ ⚙ 200 ⌧ 1,000   1000 row(s) fetched - 0.007s (0.001s fetch), on 2024-06-28 at 20:50:56

Database Tasks - General ×

Q6

Write a query to fetch all customer names and phone numbers, but sort them by the last four digits of their phone numbers in ascending order. (Hint use sorting with substrings)

```sql
SELECT name, phone
FROM customers
ORDER BY SUBSTRING(phone FROM LENGTH(phone) - 3) ASC;
```

customers 1 ×

SELECT name, phone FROM customers ORDER BY 〻 *Enter a SQL exp*

	name	phone
1	Elizabeth Lin	001-965-883-8361x0012
2	Ashley Cobb	001-587-449-0043
3	Erin Ward	+1-640-549-0044
4	Erin Miller	4327710045
5	Samuel Maddox	495-356-2786x0046
6	Sierra Johnson	(767)912-4013x0051
7	Andrew Jones	(209)855-8805x0073

customers 1 ×

SELECT name, phone FROM customers ORDER BY 〻 *Enter a SQL*

	name	phone
995	Kelsey Cooper	875-803-3674x979
996	Steven Dodson	+1-841-485-9357x980
997	Susan Wolf	418.894.8692x985
998	Jesse Coffey	+1-493-610-0792x985
999	Parker Coleman	+1-756-226-4150x988
1000	Antonio Wagner	+1-881-561-8744x998

Refresh ▼ ⊘ Save ▼ ⊠ Cancel