ByteWise Data Engineering

Task 4

Question 1

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

SELECT name

 FROM task4_schema.customers

Order by name

Question 2:

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

SELECT name AS "Product Name",

     price AS "Product Price"

   FROM task4_schema.products

Order By price Asc

Data Output   Messages   Notifications

	Product Name text	Product Price numeric
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
11	finally	19.06
12	collection	19.74
13	test	20.29

Total rows: 1000 of 1000   Query comp

Question 3

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 AS "Supplier Name"

    FROM task4_schema.suppliers

Where name LIKE 'A%'

Question 4

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

SELECT *

    FROM task4_schema.items

    Order by status nulls first

Data Output   Messages   Notifications

	item_id [PK] uuid	order_id [PK] uuid	product_id [PK] uuid	amount numeric	status text
1	55d21c57-d8a7-4c8e-96f1-af1c3db13160	6f66a611-407a-4851-b699-4ce8d8d095...	d03892f1-f8f3-44fc-bb86-e431717e4b6f	14.31	Delivered
2	8a2c9420-43b5-4b51-91aa-1fcae29b7811	7ea54b60-64d2-4583-96df-bf4ef031da...	5a49b5e1-a14d-4a84-b131-4b2de86b63...	32.95	Delivered
3	72af47e3-9998-420a-86ed-56c01cb9bd81	ddee01dc-20a1-42ff-a286-7124267ad0...	7217ab96-f866-4c74-b9ae-9c3eaf767ab4	86.44	Delivered
4	4b5a19b1-64be-41d7-ae74-a2543ca734e4	b5e30740-1585-4ea6-9c99-cd6a7877f4...	f8366f6b-ecf1-4e75-935d-ab91137c2933	8.1	Delivered
5	0bdb0f27-6bf6-4e0c-9b49-9fee26a36b60	411c82eb-100e-48fc-8095-befe7791b6f6	e6d06da3-c252-4117-9a45-6c6511aa71...	56.5	Delivered
6	e7df11b8-2943-4e28-9168-12e136a1ada0	1170d4f6-9a0f-4de6-b0e5-f671870a49...	9ff2250b-0845-41a1-9ee4-b2bbf5cc50bb	77.22	Delivered
7	03f57e54-db61-4fbd-b59a-8d5d45baa180	160a6358-7348-4e75-89dc-a37a8caf60...	3bc16381-bd29-4b7f-8366-3ecf707883f8	51.07	Delivered
8	72f7d19f-5c38-473f-a712-ad354c8a89bc	ce967796-9486-406e-9955-6c53442a8...	dd9a1016-b858-4245-a173-dc99ea0f63...	55.03	Delivered
9	5932d11f-c4f2-4905-9ac5-bbf4123b10c7	b12b51a7-2e8e-4aab-b272-9ba4fdc80d...	4de9f1be-dfeb-4100-9463-566d527f4784	75.21	Delivered
10	b0c67098-34ab-4a75-9664-86f384179dd7	ab921bf1-dd01-4287-8577-57a72c45ef...	c7ba5802-ae48-4931-9aa4-8fc8714392...	58.71	Delivered
11	6769f460-83a6-420e-b022-a785247614dd	156afbe2-e7e8-4f40-a2e5-7c133478be...	f152fa7d-e8c4-4d31-b0ae-30c60e457632	47.03	Delivered
12	16b600c6-9623-4a4a-b8f7-6a81db99da16	f7b7eafe-1411-4d0f-90ac-1818db641772	763b294f-8b7e-41c9-880c-c5fcf4d35d30	9.11	Delivered

Total rows: 1000 of 1000   Query complete 00:00:00.140   Ln 28, Col 1

Question 5

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

SELECT * FROM

    task4_schema.products

    Order by category, price desc

Data Output Messages Notifications

	product_id [PK] uuid	name text	supplier_id [PK] uuid	category text	price numeric	stock_avaialable bigint
1	12ea3377-cca5-4965-a41c-9a30998310...	of	3f89d404-d78f-4aca-8c67-ee4e434674d5	a	302.68	979
2	494c69e7-db73-42fd-9eef-7880822585a5	offer	01abe709-0567-47dc-ae92-3b077c44b8...	able	385.18	137
3	b8adc046-eef0-4f58-9c7a-7c6f58a2d628	share	6252ec97-c226-4c94-8b70-7ce1642719...	able	76.71	283
4	a63e349b-fb6e-4222-aca0-5079603843bf	wide	16157d6a-f40a-4140-b233-c8e5e8542b...	about	398.27	851
5	e61f1dad-1ec7-4114-aaf5-7a449f91c7b4	factor	c9a89c46-4f89-4cc4-a804-be28738fc04b	about	91.72	974
6	2d61572a-ad68-4eb9-a327-cbde171ce7...	middle	f292cfe7-c77d-4dd4-8b75-b5eb72f08ece	above	337.62	812
7	e37e126c-f0d4-4b67-8efc-5d4226a23a18	door	7b539636-fcdb-4749-9e31-f9e38c83cec8	above	281.2	275
8	dad2a61c-41d1-49ea-96b1-6c78daa687...	Congress	c2721d21-27ef-474c-82a6-5dcf1e3b6fcd	above	93.24	928
9	ef209ab5-5443-4496-8669-8021d28b88...	yeah	2ae9ab92-e46f-4c86-b155-cc020004c8...	accept	88.18	339
10	02859d26-c373-4a56-b134-167e3a2eb1...	realize	ff7cfc2e-76e3-41c0-823b-03e170fa871b	according	467.76	412
11	599cc57f-d7fe-42a0-ac9e-5ae3e63fafad	receive	f43c5d9a-131b-4642-87b0-7f747c4c42...	act	160.51	777
12	3e16d6b5-51c8-46fb-9d5b-09608cd14ef7	religious	b69b3fa3-eace-4684-9bc1-d5650906edf2	actually	49.53	328

Total rows: 1000 of 1000   Query complete 00:00:00.132   Ln 36, Col 1

Question 6

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 substings)

Using Substr:

SELECT name AS "Customer Name",

phone AS "Customer Phone No."

FROM task4_schema.customers

Order by substr(phone, length(phone) - 3, 4) Asc

Using Right:

SELECT name AS "Customer Name",

phone AS "Customer Phone No."

FROM task4_schema.customers

Order by right(phone, 4) Asc

Data Output   Messages   Notifications

	Customer Name text	Customer Phone No. text
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
8	Robert Gonzalez	598.888.5382x10083

Total rows: 1000 of 1000   Query complete 00:00:00.104