SQL Exercise 1

Cole Miller

9/3/2025

Estimated Time: 2 Hrs

Question 1:

Analysis:

Display the ORDDATE, ORDNO, and ORDNAME values from records in table ORDERTBL that have an ORDCITY value of 'Monroe' and ORDSTATE value of 'WA', or an ORDCITY value of 'Denver' and ORDSTATE value of 'CO', sorted in ascending order by ORDDATE.

Query:

select

  orddate,

  ordno,

  ordname

from

  ordertbl

where

  ordcity = 'Monroe'

  and ordstate = 'WA'

  or ordcity = 'Denver'

  and ordstate = 'CO'

ORDER BY

  orddate

Result:

orddate	ordno	ordname
2015-01-13	O3331222	Jim Glussman
2015-01-15	O3377543	Jerry Wyatt
2015-01-16	O7989497	Bob Mann

Question 2:

Analysis:

Display emplastname and BonusAmount values from employee table that supempno is not null sorted by ascending last name. The BonusAmount is calculated by taking the empcommrate and multiplying by 1000.

Query:

SELECT

  emplastname,

  empcommrate * 1000 AS BonusAmount

FROM

  employee

WHERE

  supempno IS NOT NULL

Order BY

  emplastname

Result:

emplastname	BonusAmount
Beck	(null)
Hill	20
Jenkins	20
Santos	20
Tang	40
White	40

Question 3:

Analysis:

Display all columns from ordertbl that were delivered to an address with the words Main Street in the ordstreet string and the substring '2015-02' in orddate. Sort the output by ascending orddate.

Query:

SELECT

 *

FROM

  ordertbl

WHERE

  ordstreet LIKE '%Main St.%'

  AND orddate LIKE '2015-02%'

ORDER BY

  orddate

Result:

ordno	orddate	custno	empno	ordname	ordstreet	ordcity	ordstate	ordzip
O1241518	2015-02-10	C9549302	(null)	Todd Hayes	1400 Main St.	Lynnwood	WA	98036-2244
O9919699	2015-02-11	C9857432	E9954302	Homer Wells	123 Main St.	Seattle	WA	98105-4322

Question 4:

Analysis:

Display maxbalance and custcity for each unique custcity in Washington State. Maxbalance is the greatest custbal for that custcity. Finaly it should be sorted first by maxbalance descending then by ascending city name.

Query:

SELECT

  custcity,

  MAX(custbal) AS MAXBALANCE

FROM

  customer

WHERE

  custstate = 'WA'

GROUP BY

  custcity

ORDER BY

  MAXBALANCE DESC,

  custcity

Result:

custcity	MAXBALANCE
Seattle	1500
Fife	1000
Bellevue	250
Renton	85
Lynnwood	0

Monroe	0

Question 5:

Analysis:

Display prodmfg, ProductCount, and InventoryPrice where ProductCount is the number of product that are offered by each manufacturer and the InventoryPrice is the sum of all of the prodqoh and prodprice for all products from a manufacturer. This also should be sorted by ascending prodmfg.

Query:

SELECT

 DISTINCT prodmfg,

 COUNT(prodqoh) AS ProductCount,

 SUM(prodqoh * prodprice) AS InventoryPrice

FROM

 product

GROUP BY

 prodmfg

ORDER BY

 prodmfg

Result:

prodmfg	ProductCount	InventoryPrice
ColorMeg, Inc.	2	5218
Connex	4	6329.36
Cybercx	1	1068
Ethlite	1	1200

Intersafe	1	494.67
UV Components	1	3199.84

"By affixing my signature below, I certify that the accompanying work represents my own intellectual effort. Furthermore, I have received no outside help other than what is documented below."

Signed: Cole Miller

Date	Person Helping	Nature of Help	Time Spent
9/3/2025	Naomi Floyd	Helped me understand the instructions better	2 minutes