

LEBOGANG MOTHIBA

PRACTICAL 2

Question 1:

12SELECT

13A.ORDERID,

14A.ORDERDATE,

15B.CUSTOMERNAME,

16C.PRODUCTNAME,

17A.QUANTITY

18FROM ORDERS_LARGE AS A

19INNER JOIN CUSTOMERS_LARGE AS B ON A.CUSTOMERID = B.CUSTOMERID

20INNER JOIN PRODUCTS_LARGE AS C ON A.PRODUCTID = C.PRODUCTID;

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ResultsChart

	#	ORDERID	ORDERDATE	CUSTOMERNAME	PRODUCTNAME	QUANTITY
1		1	2023-06-10	Customer_1251	Product_2014	10
2		2	2023-12-07	Customer_1236	Product_2004	5
3		3	2024-10-26	Customer_1170	Product_2171	9
4		4	2023-02-17	Customer_1344	Product_2007	2
5		5	2024-11-06	Customer_1319	Product_2061	2
6		6	2024-11-23	Customer_1185	Product_2190	3
7		7	2023-07-29	Customer_1011	Product_2099	8
8		8	2023-12-06	Customer_1322	Product_2078	7
9		9	2025-01-25	Customer_1224	Product_2043	7
10		10	2023-07-19	Customer_1010	Product_2141	3
11		11	2024-11-21	Customer_1324	Product_2090	1
12		12	2023-06-19	Customer_1248	Product_2115	6
13		13	2023-04-04	Customer_1315	Product_2060	10
14		14	2024-11-26	Customer_1348	Product_2144	7
15		15	2023-02-23	Customer_1310	Product_2105	5
16		16	2024-04-15	Customer_1219	Product_2082	3
17		17	2024-04-29	Customer_1199	Product_2047	5
18		18	2023-05-12	Customer_1191	Product_2101	7
19		19	2024-11-12	Customer_1364	Product_2074	7
20		20	2023-06-06	Customer_1333	Product_2117	1

Question 2:

22SELECT

23B.CUSTOMERID,

24B.CUSTOMERNAME,

25B.COUNTRY,

26A.ORDERID,

27A.ORDERDATE

28FROM ORDERS_LARGE AS A

29INNER JOIN CUSTOMERS_LARGE AS B

30ON A.CUSTOMERID=B.CUSTOMERID

31WHERE A.QUANTITY>=1;

ResultsChart

	#	CUSTOMERID	CUSTOMERNAME	COUNTRY	ORDERID	ORDERDATE
1		1251	Customer_1251	Germany	1	2023-06-10
2		1236	Customer_1236	Australia	2	2023-12-07
3		1170	Customer_1170	Germany	3	2024-10-26
4		1344	Customer_1344	Canada	4	2023-02-17
5		1319	Customer_1319	USA	5	2024-11-06
6		1185	Customer_1185	Australia	6	2024-11-23
7		1011	Customer_1011	Germany	7	2023-07-29
8		1322	Customer_1322	Australia	8	2023-12-06
9		1224	Customer_1224	Australia	9	2025-01-25
10		1010	Customer_1010	UK	10	2023-07-19
11		1324	Customer_1324	India	11	2024-11-21
12		1248	Customer_1248	Germany	12	2023-06-19
13		1315	Customer_1315	Canada	13	2023-04-04
14		1348	Customer_1348	USA	14	2024-11-26
15		1310	Customer_1310	Germany	15	2023-02-23
16		1219	Customer_1219	Germany	16	2024-04-15
17		1199	Customer_1199	USA	17	2024-04-29
18		1191	Customer_1191	Germany	18	2023-05-12
19		1364	Customer_1364	Germany	19	2024-11-12
20		1333	Customer_1333	USA	20	2023-06-06

Question 3:

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SELECT

A.CUSTOMERID,

A.CUSTOMERNAME,

A.COUNTRY,

B.ORDERID,

B.ORDERDATE,

B.PRODUCTID,

B.QUANTITY

FROM CUSTOMERS_LARGE AS A

LEFT JOIN ORDERS_LARGE AS B

ON A.CUSTOMERID=B.CUSTOMERID;

Results

Chart

	#	CUSTOMERID	CUSTOMERNAME	COUNTRY	#	ORDERID	ORDERDATE	#	PRODUCTID	QUANTITY
1		1251	Customer_1251	Germany	1	2023-06-10		2014	10	
2		1236	Customer_1236	Australia	2	2023-12-07		2004	5	
3		1170	Customer_1170	Germany	3	2024-10-26		2171	9	
4		1344	Customer_1344	Canada	4	2023-02-17		2007	2	
5		1319	Customer_1319	USA	5	2024-11-06		2061	2	
6		1185	Customer_1185	Australia	6	2024-11-23		2190	3	
7		1011	Customer_1011	Germany	7	2023-07-29		2099	8	
8		1322	Customer_1322	Australia	8	2023-12-06		2078	7	
9		1224	Customer_1224	Australia	9	2025-01-25		2043	7	
10		1010	Customer_1010	UK	10	2023-07-19		2141	3	
11		1324	Customer_1324	India	11	2024-11-21		2090	1	
12		1248	Customer_1248	Germany	12	2023-06-19		2115	6	
13		1315	Customer_1315	Canada	13	2023-04-04		2060	10	
14		1348	Customer_1348	USA	14	2024-11-26		2144	7	
15		1310	Customer_1310	Germany	15	2023-02-23		2105	5	
16		1219	Customer_1219	Germany	16	2024-04-15		2082	3	

QUESTION 4:

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SELECT

A.PRODUCTID,

A.PRODUCTNAME,

COUNT(DISTINCT ORDERID) AS TOTALORDERS

FROM PRODUCTS_LARGE AS A

LEFT JOIN ORDERS_LARGE AS B

ON A.PRODUCTID=B.PRODUCTID

GROUP BY A.PRODUCTID,A.PRODUCTNAME

ORDER BY A.PRODUCTID ASC;

Results

Chart

#	PRODUCTID	PRODUCTNAME	TOTALORDERS
1	2001	Product_2001	20
2	2002	Product_2002	23
3	2003	Product_2003	25
4	2004	Product_2004	24
5	2005	Product_2005	25
6	2006	Product_2006	13
7	2007	Product_2007	12
8	2008	Product_2008	16
9	2009	Product_2009	22
10	2010	Product_2010	18
11	2011	Product_2011	32
12	2012	Product_2012	23
13	2013	Product_2013	18
14	2014	Product_2014	22
15	2015	Product_2015	19
16	2016	Product_2016	22

QUESTION 5:

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SELECT

A.ORDERID,

A.ORDERDATE,

B.PRODUCTID,

B.PRODUCTNAME,

B.PRICE,

A.QUANTITY

FROM ORDERS_LARGE AS A

RIGHT JOIN PRODUCTS_LARGE AS B

ON A.PRODUCTID=B.PRODUCTID;

#	ORDERID	ORDERDATE	#	PRODUCTID	PRODUCTNAME	#	PRICE	#	QUANTITY
1		1 2023-06-10		2014	Product_2014		522		10
2		2 2023-12-07		2004	Product_2004		1996		5
3		3 2024-10-26		2171	Product_2171		76		9
4		4 2023-02-17		2007	Product_2007		156		2
5		5 2024-11-06		2061	Product_2061		1595		2
6		6 2024-11-23		2190	Product_2190		1755		3
7		7 2023-07-29		2099	Product_2099		1674		8
8		8 2023-12-06		2078	Product_2078		333		7
9		9 2025-01-25		2043	Product_2043		1947		7
10		10 2023-07-19		2141	Product_2141		1599		3
11		11 2024-11-21		2090	Product_2090		1662		1
12		12 2023-06-19		2115	Product_2115		1585		6
13		13 2023-04-04		2060	Product_2060		103		10
14		14 2024-11-26		2144	Product_2144		1284		7
15		15 2023-02-23		2105	Product_2105		1284		5
16		16 2024-04-15		2082	Product_2082		500		3

QUESTION 6:

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SELECT

A.CUSTOMERID,

B.CUSTOMERNAME,

B.COUNTRY,

A.ORDERID,

A.ORDERDATE,

A.PRODUCTID,

A.QUANTITY

FROM ORDERS_LARGE AS A

RIGHT JOIN CUSTOMERS_LARGE AS B

ON A.CUSTOMERID=B.CUSTOMERID;

#	CUSTOMERID	CUSTOMERNAME	COUNTRY	#	ORDERID	ORDERDATE	#	PRODUCTID	#	QUANTITY
1		1251 Customer_1251	Germany		1	2023-06-10		2014		10
2		1236 Customer_1236	Australia		2	2023-12-07		2004		5
3		1170 Customer_1170	Germany		3	2024-10-26		2171		9
4		1344 Customer_1344	Canada		4	2023-02-17		2007		2
5		1319 Customer_1319	USA		5	2024-11-06		2061		2
6		1185 Customer_1185	Australia		6	2024-11-23		2190		3
7		1011 Customer_1011	Germany		7	2023-07-29		2099		8
8		1322 Customer_1322	Australia		8	2023-12-06		2078		7
9		1224 Customer_1224	Australia		9	2025-01-25		2043		7
10		1010 Customer_1010	UK		10	2023-07-19		2141		3
11		1324 Customer_1324	India		11	2024-11-21		2090		1
12		1248 Customer_1248	Germany		12	2023-06-19		2115		6
13		1315 Customer_1315	Canada		13	2023-04-04		2060		10
14		1348 Customer_1348	USA		14	2024-11-26		2144		7
15		1310 Customer_1310	Germany		15	2023-02-23		2105		5
16		1219 Customer_1219	Germany		16	2024-04-15		2082		3

QUESTION 7:

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SELECT

A.CUSTOMERID,

A.CUSTOMERNAME,

A.COUNTRY,

B.ORDERID,

B.ORDERDATE,

B.PRODUCTID,

B.QUANTITY

FROM CUSTOMERS_LARGE AS A

FULL OUTER JOIN ORDERS_LARGE AS B

ON A.CUSTOMERID=B.CUSTOMERID;

	#	CUSTOMERID	CUSTOMERNAME	COUNTRY	#	ORDERID	ORDERDATE	#	PRODUCTID	#	QUANTITY
1		1251	Customer_1251	Germany	1	2023-06-10		2014		10	
2		1236	Customer_1236	Australia	2	2023-12-07		2004		5	
3		1170	Customer_1170	Germany	3	2024-10-26		2171		9	
4		1344	Customer_1344	Canada	4	2023-02-17		2007		2	
5		1319	Customer_1319	USA	5	2024-11-06		2061		2	
6		1185	Customer_1185	Australia	6	2024-11-23		2190		3	
7		1011	Customer_1011	Germany	7	2023-07-29		2099		8	
8		1322	Customer_1322	Australia	8	2023-12-06		2078		7	
9		1224	Customer_1224	Australia	9	2025-01-25		2043		7	
10		1010	Customer_1010	UK	10	2023-07-19		2141		3	
11		1324	Customer_1324	India	11	2024-11-21		2090		1	
12		1248	Customer_1248	Germany	12	2023-06-19		2115		6	
13		1315	Customer_1315	Canada	13	2023-04-04		2060		10	
14		1348	Customer_1348	USA	14	2024-11-26		2144		7	
15		1310	Customer_1310	Germany	15	2023-02-23		2105		5	
16		1219	Customer_1219	Germany	16	2024-04-15		2082		3	

QUESTION 8:

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SELECT

A.PRODUCTID,

A.PRODUCTNAME,

A.PRICE,

B.ORDERID,

B.ORDERDATE,

B.CUSTOMERID,

B.QUANTITY

FROM PRODUCTS_LARGE AS A

FULL OUTER JOIN ORDERS_LARGE AS B

ON A.PRODUCTID=B.PRODUCTID;

	#	PRODUCTID	PRODUCTNAME	PRICE	#	ORDERID	ORDERDATE	#	CUSTOMERID	#	QUANTITY
1		2014	Product_2014	522	1	2023-06-10		1251		10	
2		2004	Product_2004	1996	2	2023-12-07		1236		5	
3		2171	Product_2171	76	3	2024-10-26		1170		9	
4		2007	Product_2007	156	4	2023-02-17		1344		2	
5		2061	Product_2061	1595	5	2024-11-06		1319		2	
6		2190	Product_2190	1755	6	2024-11-23		1185		3	
7		2099	Product_2099	1674	7	2023-07-29		1011		8	
8		2078	Product_2078	333	8	2023-12-06		1322		7	
9		2043	Product_2043	1947	9	2025-01-25		1224		7	
10		2141	Product_2141	1599	10	2023-07-19		1010		3	
11		2090	Product_2090	1662	11	2024-11-21		1324		1	
12		2115	Product_2115	1585	12	2023-06-19		1248		6	
13		2060	Product_2060	103	13	2023-04-04		1315		10	
14		2144	Product_2144	1284	14	2024-11-26		1348		7	
15		2105	Product_2105	1284	15	2023-02-23		1310		5	
16		2082	Product_2082	500	16	2024-04-15		1219		3	