Database Advance Job sheet 2



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21

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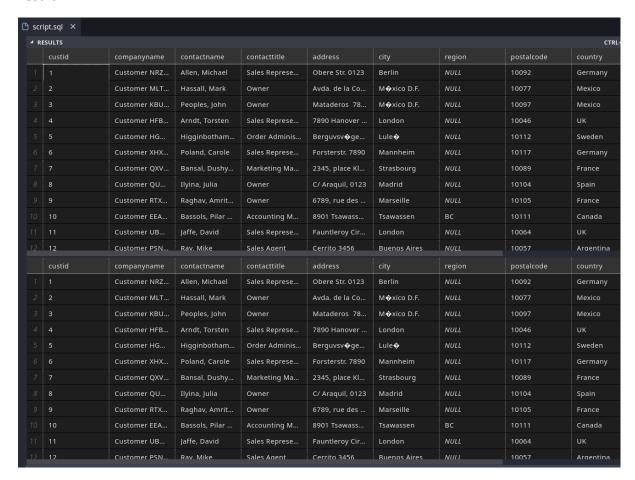
Informatics Engineering

Practicum 1

Code:

```
week1 > TSQL > Script.sql
    SELECT
    *
    FROM Sales.Customers;
4
    SELECT
    custid, companyname, contactname, contacttitle, address, city, region, postalcode, country, phone, fax
    FROM Sales.Customers;
```

Result:



- 1. How is this different from the result in the second step above?
 - The different is the first query use * which is wildcard that is used to select all table, then the second query use table name to select table that we want it.

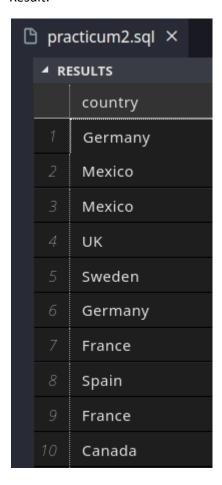
Practicum 2

Code:

```
practicum2.sql ×

week1 > TSQL > practicum2.sql
    SELECT
    country
    FROM Sales.Customers;
```

Result:



- 2. Is there any duplicated data? If YES why? Capture the execution result of the SQL script above!
 - Yes, data country can be duplicated because at country, there is no unique identifier.

Code:

```
practicum2.sql ×

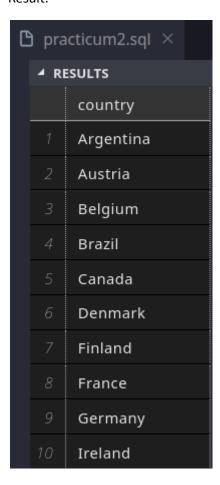
week1 > TSQL > ≥ practicum2.sql

SELECT DISTINCT

country

FROM Sales.Customers;
```

Result:



- 3. Is there any duplicated data? Explain the difference between the results of stage 4 and stage 3! What are the benefits of the DISTINCT command? Capture the execution result of the SQL script above!
 - No. The difference between both is at stage 3 there is duplicated data because it doesn't use distinct. Then, at stage 4 there is no duplicated data because it use distinct. The function of distinct is to return unique data. If there are duplicated data, when we use distinct, it'll return only one data that duplicated.

Practicum 3

Code:

Result:

🗅 pra	🖰 practicum45.sql ×			
⊿ R	ESULTS			
	contactname	contacttitle		
1	Allen, Michael	Sales Represe		
2	Hassall, Mark	Owner		
3	Peoples, John	Owner		
4	Arndt, Torsten	Sales Represe		
5	Higginbotham	Order Adminis		
6	Poland, Carole	Sales Represe		
7	Bansal, Dushy	Marketing Ma		
8	Ilyina, Julia	Owner		
9	Raghav, Amrit	Owner		
10	Bassols, Pilar	Accounting M		

Code:

C	🕒 practicum5.sql ×					
	▲ RESULTS					
		Name	Title	Company Name		
		Allen, Michael	Sales Represe	Customer NRZ		
	2	Hassall, Mark	Owner	Customer MLT		
	3	Peoples, John	Owner	Customer KBU		
		Arndt, Torsten	Sales Represe	Customer HFB		
		Higginbotham	Order Adminis	Customer HG		
	6	Poland, Carole	Sales Represe	Customer XHX		
	7	Bansal, Dushy	Marketing Ma	Customer QXV		
	8	Ilyina, Julia	Owner	Customer QU		
	9	Raghav, Amrit	Owner	Customer RTX		
	10	Bassols, Pilar	Accounting M	Customer EEA		

- 4. What is the difference between the execution results of stage 1 and stage 3 queries above? What are the benefits of the AS command? Please explain! Capture the execution result of the SQL script above
 - The difference between both is the stage 1 use AS(ALIAS) at Sales.Customers table. It useful to modify the table name that we want it. Then the stage 3 use AS(ALIAS) at Sales.Customers table and column that we write it. It useful to modify the table name and the column name and display the column name as we want.

Practicum 4

Code:

```
practicum4.sql ×

week1 > TSQL > = practicum4.sql

1    SELECT
2    p.categoryid, p.productname
3    FROM Production.Products AS p;
```

C	🕒 practicum4.sql ×			
	⊿ RI	ESULTS		
		categoryid	productname	
		1	Product HHYDP	
		1	Product RECZE	
	3	2	Product IMEHJ	
		2	Product KSBRM	
		2	Product EPEIM	
	6	2	Product VAIIV	
	7	7	Product HMLNI	
	8	2	Product WVJFP	
	9	6	Product AOZBW	
	10	8	Product YHXGE	

Code:

```
> practicum4.sql × > setup.sql
week1 > TSQL > 😂 practicum4.sql
      -- SELECT
       SELECT
           p.categoryid, p.productname,
           CASE
                   WHEN p.categoryid = 1 THEN 'Beverages'
                   WHEN p.categoryid = 2 THEN 'Condiments'
                   WHEN p.categoryid = 3 THEN 'Confections'
                   WHEN p.categoryid = 4 THEN 'Dairy Products'
 11
                   WHEN p.categoryid = 5 THEN 'Grains/Cereals'
 12
                   WHEN p.categoryid = 6 THEN 'Meat/Poultry'
 13
                   WHEN p.categoryid = 7 THEN 'Produce'
                   WHEN p.categoryid = 8 THEN 'Seafood'
 15
                   ELSE 'Other'
           END AS categoryname
       FROM Production. Products AS p;
```

🕒 pr	🕒 practicum4.sql ×				
⊿ F	ESULTS				
	categoryid	productname	categoryname		
1	1	Product HHYDP	Beverages		
2	1	Product RECZE	Beverages		
3	2	Product IMEHJ	Condiments		
4	2	Product KSBRM	Condiments		
5	2	Product EPEIM	Condiments		
6	2	Product VAIIV	Condiments		
7	7	Product HMLNI	Produce		
8	2	Product WVJFP	Condiments		
9	6	Product AOZBW	Meat/Poultry		
10	8	Product YHXGE	Seafood		

5. What is the difference between the execution results of the stage 1 and stage 3 queries above? What are the benefits of the CASE command? Please explain! Capture the execution result of the SQL script above!

- The difference between both is the stage 1 doing select query to get categoryid and productname column, then the stage 2 doing select uery to get categoryid and productname column, but there is addition that is categoryname column that is added by case condition that doing condition to add new value based on value categoryid.

Code:

```
⇒ practicum4.sql × ⇒ setup.sql

week1 > TSQL > ⊌ practicum4.sql
       SELECT
           p.categoryid, p.productname,
                   WHEN p.categoryid = 1 THEN 'Beverages'
                   WHEN p.categoryid = 2 THEN 'Condiments'
                   WHEN p.categoryid = 3 THEN 'Confections'
                   WHEN p.categoryid = 4 THEN 'Dairy Products'
                   WHEN p.categoryid = 5 THEN 'Grains/Cereals'
                   WHEN p.categoryid = 6 THEN 'Meat/Poultry'
                   WHEN p.categoryid = 7 THEN 'Produce'
                   WHEN p.categoryid = 8 THEN 'Seafood'
                   ELSE 'Other'
           END AS categoryname,
           CASE
                   WHEN p.categoryid IN (1, 7, 8) THEN 'Campaign Products'
                   ELSE 'Non-Campaign Products'
           END AS iscampaign
 37
       FROM Production.Products AS p;
```

🕒 practicum4.sql ×					
⊿ RE	SULTS				
	categoryid	productname	categoryname	iscampaign	
1	1	Product HHYDP	Beverages	Campaign Pro	
2	1	Product RECZE	Beverages	Campaign Pro	
3	2	Product IMEHJ	Condiments	Non-Campaig	
4	2	Product KSBRM	Condiments	Non-Campaig	
5	2	Product EPEIM	Condiments	Non-Campaig	
6	2	Product VAIIV	Condiments	Non-Campaig	
7	7	Product HMLNI	Produce	Campaign Pro	
8	2	Product WVJFP	Condiments	Non-Campaig	
9	6	Product AOZBW	Meat/Poultry	Non-Campaig	
10	8	Product YHXGE	Seafood	Campaign Pro	

- 6. Please capture the results, what data is obtained from the guery command above? Explain!
 - According query above, there is query that doing select column that same with before, but there is addition column that namely iscampaign that using CASE condition. The different

with CASE before, this CASE use IN to combine categoryid value become one, so that we don't repeat to write a query categoryid one by one. Then if the condition is true, iscampaign will be added 'campaign products', then else it'll be added 'non-campaign products'.

7. Based on question number 6, please display the data in the 'seafood' category only and use the ALIAS command to change the column name as shown below. Capture your SQL command and how many rows are generated!

```
p.categoryid, p.productname,
21
         CASE
22
                 WHEN p.categoryid = 1 THEN 'Beverages'
                 WHEN p.categoryid = 2 THEN 'Condiments'
                 WHEN p.categoryid = 3 THEN 'Confections'
25
                 WHEN p.categoryid = 4 THEN 'Dairy Products'
                 WHEN p.categoryid = 5 THEN 'Grains/Cereals'
                 WHEN p.categoryid = 6 THEN 'Meat/Poultry'
                 WHEN p.categoryid = 7 THEN 'Produce'
                 WHEN p.categoryid = 8 THEN 'Seafood'
                 ELSE 'Other'
         END AS categoryname,
32
         CASE
                 WHEN p.categoryid IN (1, 7, 8) THEN 'Campaign
                 Products'
                 ELSE 'Non-Campaign Products'
         END AS status
     FROM Production.Products AS p
     WHERE p.categoryid = 8;
38
```

C) pra	cticum4.sql ×			
	⊿ RE	SULTS			
		categoryid	productname	categoryname	status
	1	8	Product YHXGE	Seafood	Campaign Products
	2	8	Product POXFU	Seafood	Campaign Products
	3	8	Product CKEDC	Seafood	Campaign Products
	4	8	Product LYERX	Seafood	Campaign Products
		8	Product GMKIJ	Seafood	Campaign Products
	6	8	Product EVFFA	Seafood	Campaign Products
	7	8	Product YZIXQ	Seafood	Campaign Products
	8	8	Product TTEEX	Seafood	Campaign Products
	9	8	Product AQOKR	Seafood	Campaign Products
	10	8	Product CBRRL	Seafood	Campaign Products
	11	8	Product ACRVI	Seafood	Campaign Products
	12	8	Product WEUJZ	Seafood	Campaign Products

- There are 12 rows that generated.
- 8. Display employees data from the HR.Employees table that are from the country 'USA' and the city 'Seattle', use the ALIAS command to rename the columns as shown below. Capture your SQL command!

```
SELECT

41 firstname AS FIRST_NAME, lastname AS LAST_NAME, city AS CITY, country AS COUNTRY

42 FROM HR.Employees

43 WHERE CITY = 'Seattle' AND COUNTRY = 'USA';
```

🗅 pra	🖰 practicum4.sql ×					
⊿ R	▲ RESULTS					
	FIRST_NAME	LAST_NAME	CITY	COUNTRY		
1	Sara	Davis	Seattle	USA		
2	Maria	Cameron	Seattle	USA		

Practicum 5.1

Code:

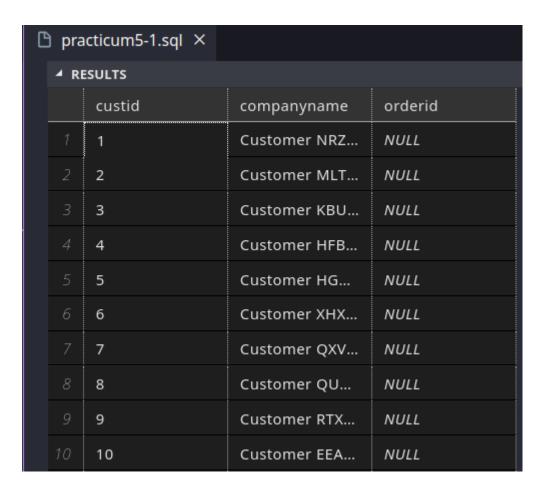
Result:

🗅 pra	🕒 practicum5-1.sql ×				
⊿ RE	▲ RESULTS				
	custid	companyname	contactname	address	city
1	15	Customer JUW	Richardson, S	Av. dos Lus�a	Sao Paulo
2	21	Customer KID	Russo, Giusep	Rua Or�s, 3456	Sao Paulo
3	31	Customer YJCBX	Cheng, Yao-Qi	Av. Brasil, 5678	Campinas
4	34	Customer IBV	Cohen, Shy	Rua do Pa�o,	Rio de Janeiro
5	61	Customer WU	Florczyk, Krzys	Rua da Panific	Rio de Janeiro
6	62	Customer WFIZJ	Misiec, Anna	Alameda dos	Sao Paulo
7	67	Customer QVE	Garden, Euan	Av. Copacaba	Rio de Janeiro
8	81	Customer YQ	Nagel, Jean-P	Av. In�s de C	Sao Paulo
9	88	Customer SRQ	Li, Yan	Rua do Merca	Resende

9. Write a SELECT command that will return values in the custid, companyname, contactname, address, city, country, and phone columns in the Sales. Customers table, then filter the results to only for "Brazil, UK and USA" (Use the IN predicate in the WHERE clause).

🗅 pra	🕒 practicum5-1.sql 🗡						
⊿ RI	SULTS						ст
	custid	companyname	contactname	address	city	country	phone
1	4	Customer HFB	Arndt, Torsten	7890 Hanover	London	UK	(171) 456-7890
2	11	Customer UB	Jaffe, David	Fauntleroy Cir	London	UK	(171) 789-0123
3	15	Customer JUW	Richardson, S	Av. dos Lus�a	Sao Paulo	Brazil	(11) 012-3456
4	16	Customer GYB	Birkby, Dana	Berkeley Gard	London	UK	(171) 234-5678
5	19	Customer RFN	Boseman, Ran	5678 King Geo	London	UK	(171) 345-6789
6	21	Customer KID	Russo, Giusep	Rua Or�s, 3456	Sao Paulo	Brazil	(11) 456-7890
7	31	Customer YJCBX	Cheng, Yao-Qi	Av. Brasil, 5678	Campinas	Brazil	(11) 567-8901
8	32	Customer YSI	Krishnan, Venky	6789 Baker Bl	Eugene	USA	(503) 555-0122
9	34	Customer IBV	Cohen, Shy	Rua do Pa�o,	Rio de Janeiro	Brazil	(21) 789-0123
10	36	Customer LVJSO	Smith, Denise	City Center Pl	Elgin	USA	(503) 555-0126

Code:



10. Copy the T-SQL code in step 4 and modify it with the comparison operator for the city column in the WHERE clause with the OR operator. After that, execute the code, show the result!

```
SELECT

c.custid, c.companyname, o.orderid

FROM Sales.Customers AS c

LEFT OUTER JOIN Sales.Orders AS o ON c.custid = o.custid OR c.city = 'Paris';
```

	□ practicum5-1.sql ×					
-	▲ RESULTS					
		custid	companyname	orderid		
	1	1	Customer NRZBB	10643		
		1	Customer NRZBB	10692		
	3	1	Customer NRZBB	10702		
	4	1	Customer NRZBB	10835		
		1	Customer NRZBB	10952		
	6	1	Customer NRZBB	11011		
	7	2	Customer MLTDN	10308		
	8	2	Customer MLTDN	10625		
	9	2	Customer MLTDN	10759		
1	10	2	Customer MLTDN	10926		

Practicum 6

11. Write a SELECT command to retrieve the custid, custname columns from the table Sales. Customers table and the orderid, orderdate columns from the Sales. Orders table! Filter the result only for orders on or after April 1, 2008. Then sort the results by orderdate descending and custid ascending!

🖺 pra	🕒 practicum6.sql ×						
⊿ RE	▲ RESULTS CTR						
	custid	companyname	orderid	orderdate			
1	9	Customer RTXGC	11076	2008-05-06 00:00:00.000			
2	65	Customer NYUHS	11077	2008-05-06 00:00:00.000			
3	68	Customer CCKOT	11075	2008-05-06 00:00:00.000			
4	73	Customer JMIKW	11074	2008-05-06 00:00:00.000			
5	20	Customer THHDP	11072	2008-05-05 00:00:00.000			
6	44	Customer OXFRU	11070	2008-05-05 00:00:00.000			
7	46	Customer XPNIK	11071	2008-05-05 00:00:00.000			
8	58	Customer AHXHT	11073	2008-05-05 00:00:00.000			
9	17	Customer FEVNN	11067	2008-05-04 00:00:00.000			
10	62	Customer WFIZJ	11068	2008-05-04 00:00:00.000			

Code:

```
spracticum6.sql ×

week1 > TSQL > spracticum6.sql

SELECT

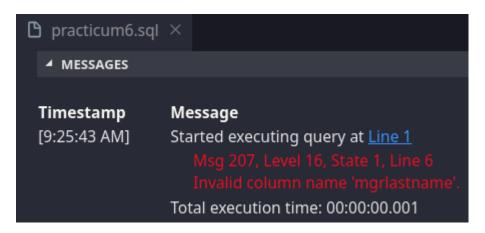
e.empid, e.lastname, e.firstname, e.title, e.mgrid, m.lastname AS mgrlastname, m.firstname AS mgrfirstname

FROM HR.Employees AS e

INNER JOIN HR.Employees AS m ON e.mgrid = m.empid

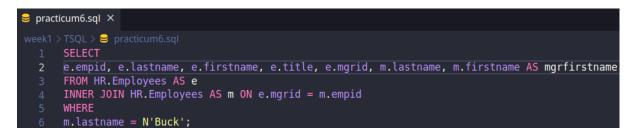
WHERE

mgrlastname = N'Buck';
```



- 12. Execute the T-SQL command in step 3. Did an error occur? What was the error messages? What do you think is the cause?
 - According to the query above, the error message was appear because at WHERE can't write columns with AS.

13. Make changes to the T-SQL commands to correct the error in the 3rd trial, then execute! Compare the execution result with the following result. If they are the same, then the test result is correct.





14. Copy the T-SQL command in trial 4, and modify it so that it lists all the employees ORDER BY manager's first name. Initially test using the table, then test using the table alias! Execute the T-SQL and compare it with the following result. If the results are the same, then the test is correct.

```
SELECT
e.empid, e.lastname AS emplastname, e.firstname AS empfirstname, e.title, e.mgrid, m.lastname, m.firstname
FROM HR.Employees AS e
INNER JOIN HR.Employees AS m ON e.mgrid = m.empid
DRDER BY m.firstname ASC;
```



- 15. Why can we use column names that match the table's original name or use a table alias?
 - Because we can use ALIAS to change name column or table that we want.

Practicum 7

16. Write a SELECT command to display the productname and unitprice columns in the Production. Products table sorted in descending order by unitprice! Display the execution result!

```
practicum7.sql ×

week1 > TSQL > ⇒ practicum7.sql

SELECT

productname, unitprice

FROM Production.Products

ORDER BY unitprice DESC;

practicum7.sql

DESC | Production | Products

DESC | Production | Products

ORDER BY unitprice DESC;
```

פ	🗅 practicum7.sql ×			
	⊿ RE	SULTS		
		productname	unitprice	
		Product QDO	263.50	
		Product VJXYN	123.79	
		Product AOZBW	97.00	
		Product QHFFP	81.00	
		Product CKEDC	62.50	
	6	Product UKXRI	55.00	
		Product APITJ	53.00	
	8	Product WUXYK	49.30	
	9	Product ZZZHR	46.00	
	10	Product OFBNT	45.60	

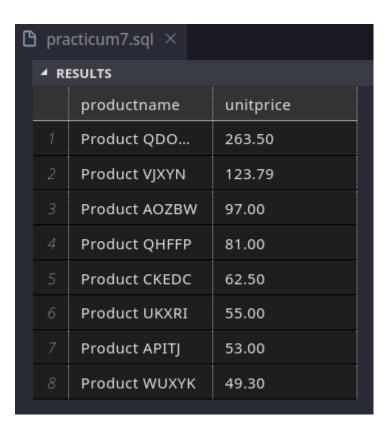
17. Copy and modify the T-SQL command in trial 2 with the restriction that only 8 products that children are displayed based on unitprice ordering! Execute the command, and compare it with the following results.

```
practicum7.sql ×

week1 > TSQL > practicum7.sql

1    SELECT TOP 8

2    productname, unitprice
3    FROM Production.Products
4    ORDER BY unitprice DESC;
```



18. Is it possible to implement the T-SQL command of trial 5 using the OFFSET-FETCH clause?

- Yes it can. We write OFFSET to 0 ROWS, then set FETCH NEXT to 8 ROWS ONLY.

```
week1 > TSQL > practicum7.sql
    SELECT
    productname, unitprice
    FROM Production.Products
    ORDER BY unitprice DESC
    OFFSET 0 ROWS
    FETCH NEXT 8 ROWS ONLY;
```

C	₾ practicum7.sql ×			
	▲ RESULTS			
		productname	unitprice	
	1	Product QDO	263.50	
	2	Product VJXYN	123.79	
	3	Product AOZBW	97.00	
		Product QHFFP	81.00	
		Product CKEDC	62.50	
	6	Product UKXRI	55.00	
	7	Product APITJ	53.00	
	8	Product WUXYK	49.30	

Practicum 8

19. Write a SELECT command to display the custid, orderid, and orderdate columns in the Sales. Orders table. Sort the rows by orderdate and orderid. Retrieve the first 20 rows. Execute the command and compare the results below. If the results are the same, then your test is correct.

```
practicum8.sql ×

week1 > TSQL > practicum8.sql
    SELECT TOP 20
    custid, orderid, orderdate
    FROM Sales.Orders
    ORDER BY orderid ASC, orderdate ASC;
```

□ pr	□ practicum8.sql ×				
⊿ R	▲ RESULTS				
	custid	orderid	orderdate		
1	85	10248	2006-07-04 00:00:00.000		
2	79	10249	2006-07-05 00:00:00.000		
3	34	10250	2006-07-08 00:00:00.000		
4	84	10251	2006-07-08 00:00:00.000		
5	76	10252	2006-07-09 00:00:00.000		
6	34	10253	2006-07-10 00:00:00.000		
7	14	10254	2006-07-11 00:00:00.000		
8	68	10255	2006-07-12 00:00:00.000		
9	88	10256	2006-07-15 00:00:00.000		
10	35	10257	2006-07-16 00:00:00.000		

20. Write a SELECT command to display the same result as question no. 19, skip the first 20 rows, and continue with the next 20 rows using the OFFSET- clause. FETCH CLAUSE! Execute the command and compare it with the following result. If the result is the same, then your test is correct.

```
6 SELECT
7 custid, orderid, orderdate
8 FROM Sales.Orders
9 ORDER BY orderid ASC, orderdate ASC
10 OFFSET 20 ROWS
11 FETCH NEXT 20 ROWS ONLY;
```

	🖰 practicum8.sql ×			
1	▲ RESULTS			
		custid	orderid	orderdate
	1	33	10268	2006-07-30 00:00:00.000
	2	89	10269	2006-07-31 00:00:00.000
	3	87	10270	2006-08-01 00:00:00.000
	4	75	10271	2006-08-01 00:00:00.000
	5	65	10272	2006-08-02 00:00:00.000
	6	63	10273	2006-08-05 00:00:00.000
	7	85	10274	2006-08-06 00:00:00.000
	8	49	10275	2006-08-07 00:00:00.000
	9	80	10276	2006-08-08 00:00:00.000
	10	52	10277	2006-08-09 00:00:00.000

Practicum 9

Code:

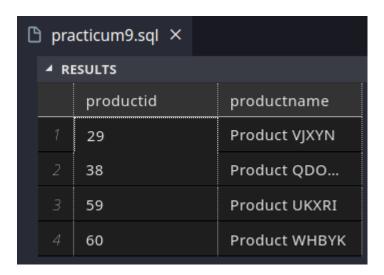
```
practicum9.sql ×

week1 > TSQL > practicum9.sql

1   SELECT
2   productid,
3   productname
4   FROM
5   Production.products
6   WHERE
7   categoryid = 4;
```

🕒 practicum9.sql ×			
₄ RI	▲ RESULTS		
	productid	productname	
	11	Product QMV	
	12	Product OSFNS	
3	31	Product XWOXC	
	32	Product NUNA	
	33	Product ASTMN	
6	59	Product UKXRI	
	60	Product WHBYK	
8	69	Product COAXA	
9	71	Product MYMOI	
10	72	Product GEEOO	

Code:



21. Write an SQL that displays the results in practicum-1 step-1 & 2 at once (combined) using UNION! at once (combined) by using UNION! Instructions: Put UNION between the two SQLs.

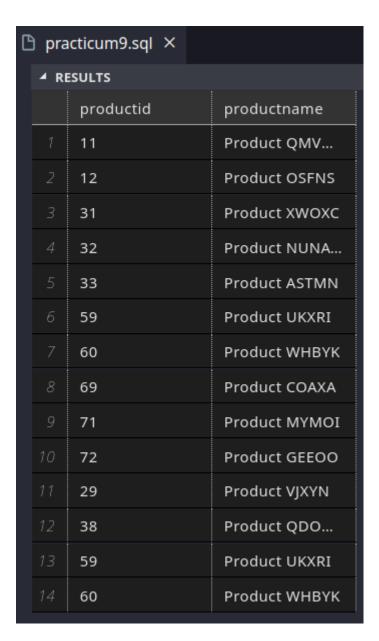
```
⇒ practicum9.sql ×

week1 > TSQL > > practicum9.sql
       SELECT
           productid,
           productname
       FROM
           Production.products
       WHERE
           categoryid = 4
       UNION SELECT
           P.productid,
           P.productname
 12
       FROM
           Production.products P INNER JOIN Sales.OrderDetails OD
 13
       ON
           P.productid = OD.productid
 15
       GROUP BY
           P.productid, P.productname
       HAVING
           SUM(OD.qty * OD.unitprice) > 50000;
 19
```

C	🕒 practicum9.sql ×				
	▲ RESULTS				
		productid	productname		
	1	11	Product QMVUN		
	2	12	Product OSFNS		
	3	29	Product VJXYN		
	4	31	Product XWOXC		
	5	32	Product NUNAW		
	6	33	Product ASTMN		
	7	38	Product QDOMO		
	8	59	Product UKXRI		
	9	60	Product WHBYK		
	10	69	Product COAXA		
	11	71	Product MYMOI		
	12	72	Product GEEOO		

22. Similar to the previous step, this time write an SQL that displays results in practicum-1 step-1 & 2 at once (combined) by using UNION ALL!

```
SELECT
21
         productid,
         productname
     FROM
         Production.products
     WHERE
         categoryid = 4
     UNION ALL SELECT
29
         P.productid,
         P.productname
     FROM
         Production.products P INNER JOIN Sales.OrderDetails OD
     ON
         P.productid = OD.productid
     GROUP BY
         P.productid, P.productname
     HAVING
         SUM(OD.qty * OD.unitprice) > 50000;
```



- 23. What is the difference between UNION and UNION ALL?
 - The difference between both is UNION ALL Includes duplicates, then UNION Excludes duplicates.
- 24. Write SQL to display the 10 customers who bought the earliest as well as the 10 customers who bought last.

```
SELECT *
41
     FROM (SELECT TOP 10
42
         c.custid, c.companyname, o.orderdate
43
     FROM Sales.Customers AS c
     INNER JOIN Sales.Orders AS o
45
         ON c.custid = o.custid
     ORDER BY o.orderdate ASC) AS A1
47
     UNION ALL
     SELECT *
     FROM (SELECT TOP 10
         c.custid, c.companyname, o.orderdate
51
     FROM Sales.Customers AS c
52
     INNER JOIN Sales.Orders AS o
         ON c.custid = o.custid
     ORDER BY o.orderdate DESC) AS A2;
55
```

🗅 practicum9.sql ×

▲ RESULTS

- RESULIS				
	custid	companyname	orderdate	
1	85	Customer EN	2006-07-04 00:00:00.000	
	79	Customer FAP	2006-07-05 00:00:00.000	
	34	Customer IBV	2006-07-08 00:00:00.000	
	84	Customer NRC	2006-07-08 00:00:00.000	
	76	Customer SFO	2006-07-09 00:00:00.000	
6	34	Customer IBV	2006-07-10 00:00:00.000	
7	14	Customer WN	2006-07-11 00:00:00.000	
8	68	Customer CCK	2006-07-12 00:00:00.000	
9	88	Customer SRQ	2006-07-15 00:00:00.000	
10	35	Customer UM	2006-07-16 00:00:00.000	
	65	Customer NY	2008-05-06 00:00:00.000	
12	9	Customer RTX	2008-05-06 00:00:00.000	
13	68	Customer CCK	2008-05-06 00:00:00.000	
14	73	Customer JMI	2008-05-06 00:00:00.000	
	58	Customer AHX	2008-05-05 00:00:00.000	
16	20	Customer TH	2008-05-05 00:00:00.000	
17	46	Customer XPN	2008-05-05 00:00:00.000	
18	44	Customer OXF	2008-05-05 00:00:00.000	
19	80	Customer VO	2008-05-04 00:00:00.000	
20	62	Customer WFIZJ	2008-05-04 00:00:00.000	