## **Tutorial:**

https://www.youtube.com/watch?v=kW5GsrRqv-M&ab channel=BhaskarReddyPulsani

```
DECLARE @name VARCHAR(18), @last_name VARCHAR(18), @birthday DATE;
     SET @name='Henry';
     SET @last_name='Tudor';
     SET @birthday = '28-06-1491';
     PRINT 'Name: ' + @name + ' ' + @last_name;
     PRINT 'Birthday: ' + CONVERT(VARCHAR, @birthday);
110 % -
Name: Henry Tudor
   Birthday: 1491-06-28
   Время выполнения: 2022-03-25T00:00:19.3927797+06:00
      DECLARE @youngest_person INT;
      SET @youngest_person = (SELECT MIN(age) AS child_age FROM train$);

☐IF @youngest_person < 18
</pre>
          PRINT 'CHILD!';
      ELSE
          PRINT 'ADULT!';
110 %
ADULT!
   Время выполнения: 2022-03-25Т00:18:10.3829021+06:00
View:
            CREATE VIEW PASSENGERS_LAST_NAME AS
            SELECT Name AS original_name,
            LEFT(Name, CHARINDEX(',', Name)-1) AS last_name from train$
            SELECT LAST_NAME FROM PASSENGERS_LAST_NAME
            DROP VIEW PASSENGERS_LAST_NAME
110 % -

    ⊞ Результаты 
    ெ Сообщения

    LAST NAME
   Braund
2
    Cumings
3
    Heikkinen
4
    Futrelle
    Allen
5
6
    Moran
7
    McCarthy
    Palsson
8
9
    Johnson
10
    Nasser
11 Sandstrom
```

1. Import titanic.xls into your DBMS.

⊞ Pe	зультаты 🗃 Соо	бщения										
	PASSENGERID	SURVIVED	PCLASS	NAME	GENDER	AGE	SIBSP	PARCH	TICKET	FARE	CABIN	EMBARKED
1	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	A/5 21171	45839	NULL	S
2	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thay	female	38	1	0	PC 17599	71,28	C85	C
3	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	STON/02. 3101282	7,93	NULL	S
4	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53,1	C123	S
5	5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	43228	NULL	S
6	6	0	3	Moran, Mr. James	male	0	0	0	330877	980160	NULL	Q
7	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51,86	E46	S
8	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21,08	NULL	S
9	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11,13	NULL	S
10	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30,07	NULL	С
11	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	43297	G6	S
12	12	1	1	Bonnell, Miss. Elizabeth	female	58	0	0	113783	26,55	C103	S
13	13	0	3	Saundercock, Mr. William Henry	male	20	0	0	A/5. 2151	43228	NULL	S
14	14	0	3	Andersson, Mr. Anders Johan	male	39	1	5	347082	31,28	NULL	S
15	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina	female	14	0	0	350406	2426	NULL	S
16	16	1	2	Hewlett, Mrs. (Mary D Kingcome)	female	55	0	0	248706	16	NULL	S
17	17	0	3	Rice, Master. Eugene	male	2	4	1	382652	29,13	NULL	Q
18	18	1	2	Williams, Mr. Charles Eugene	male	0	0	0	244373	13	NULL	S
19	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vandem	female	31	1	0	345763	18	NULL	S
20	20	1	3	Masselmani, Mrs. Fatima	female	0	0	0	2649	7,23	NULL	С
21	21	0	2	Fynney, Mr. Joseph J	male	35	0	0	239865	26	NULL	S
22	22	1	2	Beesley, Mr. Lawrence	male	34	0	0	248698	13	D56	S
23	23	1	3	McGowan, Miss. Anna "Annie"	female	15	0	0	330923	8,03	NULL	Q
24	24	1	1	Sloper, Mr. William Thompson	male	28	0	0	113788	35,5	A6	S
25	25	0	3	Palsson, Miss. Torborg Danira	female	8	3	1	349909	21,08	NULL	S
26	26	1	3	Aenlund Mre Carl Oenar /Salma Augusta Emilia I	female	38	1	5	3/17077	21 20	NII II I	9

2. Group people by gender and check if the number matches the total number of passengers.



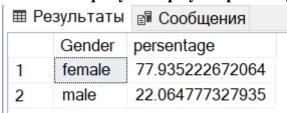
3. Count the number of different cabins.



4. Write a query to display information about those passengers whose data does not indicate the port of departure.

⊞ P	езультаты [	҈ Сообщ	ения									
	Passengerld	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked
1	62	1	1	Icard, Miss. Amelie	female	38	0	0	113572	80	B28	NULL
2	830	1	1	Stone, Mrs. George Nelson (Martha Evelyn)	female	62	0	0	113572	80	B28	NULL

5. Write a query to display the percentage of men and women who survived the disaster.



6. Write a query to display the average age of the victims (in form of message).

В Сообщения
AVERAGE NUMBER OF VICTIMS IS 484.016
Время выполнения: 2022-03-24T22:54:04.9021952+06:00

7. Add a column indicating the number of repetitions for each cabin. The absence of a cabin number should also be taken into account.

⊞ Pe	езультаты 🖼 Соо	бщения											
	PASSENGERID	SURVIVED	PCLASS	NAME	GENDER	AGE	SIBSP	PARCH	TICKET	FARE	CABIN	EMBARKED	NUM_CABIN
1	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	A/5 21171	45839	NULL	S	1014
2	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thay	female	38	1	0	PC 17599	71,28	C85	C	2
3	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	STON/O2. 3101282	7,93	NULL	S	1014
4	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53,1	C123	S	2
5	5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	43228	NULL	S	1014
6	6	0	3	Moran, Mr. James	male	0	0	0	330877	980160	NULL	Q	1014
7	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51,86	E46	S	2
8	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21,08	NULL	S	1014
9	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11,13	NULL	S	1014
10	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30,07	NULL	С	1014
11	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	43297	G6	S	5
12	12	1	1	Bonnell, Miss. Elizabeth	female	58	0	0	113783	26,55	C103	S	1
13	13	0	3	Saundercock, Mr. William Henry	male	20	0	0	A/5. 2151	43228	NULL	S	1014
14	14	0	3	Andersson, Mr. Anders Johan	male	39	1	5	347082	31,28	NULL	S	1014
15	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina	female	14	0	0	350406	2426	NULL	S	1014
16	16	1	2	Hewlett, Mrs. (Mary D Kingcome)	female	55	0	0	248706	16	NULL	S	1014
17	17	0	3	Rice, Master. Eugene	male	2	4	1	382652	29,13	NULL	Q	1014
18	18	1	2	Williams, Mr. Charles Eugene	male	0	0	0	244373	13	NULL	S	1014
19	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vandem	female	31	1	0	345763	18	NULL	S	1014

8. Separate the passenger names into four columns: the original name column, the passenger last name column, the passenger first name column without regalia, and the maiden name column of married women.

	взультаты 🗃 Сообщения			
	original_name	last_name	first_name	maiden_name
1	Braund, Mr. Owen Harris	Braund	Owen Harris	
2	Cumings, Mrs. John Bradley (Florence Briggs Thay	Cumings	John Bradley	Florence Briggs Thayer
3	Heikkinen, Miss. Laina	Heikkinen	Laina	
4	Futrelle, Mrs. Jacques Heath (Lily May Peel)	Futrelle	Jacques Heath	Lily May Peel
5	Allen, Mr. William Henry	Allen	William Henry	
6	Moran, Mr. James	Moran	James	
7	McCarthy, Mr. Timothy J	McCarthy	Timothy J	
8	Palsson, Master. Gosta Leonard	Palsson	Gosta Leonard	
9	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	Johnson	Oscar W	Elisabeth Vilhelmina
10	Nasser, Mrs. Nicholas (Adele Achem)	Nasser	Nicholas	Adele Achem
11	Sandstrom, Miss. Marguerite Rut	Sandstr	Marguerite Rut	
12	Bonnell, Miss. Elizabeth	Bonnell	Elizabeth	
13	Saundercock, Mr. William Henry	Saunder	William Henry	
14	Andersson, Mr. Anders Johan	Anderss	Anders Johan	
15	Vestrom, Miss. Hulda Amanda Adolfina	Vestrom	Hulda Amand	
16	Hewlett, Mrs. (Mary D Kingcome)	Hewlett		Mary D Kingcome
17	Rice, Master. Eugene	Rice	Eugene	
18	Williams, Mr. Charles Eugene	Williams	Charles Euge	

9. Show the number of regalia (Mr., Mrs, Miss, Master, Rev, Col, etc.)

	rogolio		
	regalia	num	
1	Capt.	1	
2	Col.	4	
3	Don.	1	
4	Dona.	1	
5	Dr.	8	
6	Jonkheer.	1	
7	Lady.	1	
8	Major.	2	
9	Master.	61	
10	Miss.	260	
11	Mlle.	2	
12	Mme.	1	
13	Mr.	757	
14	Mrs.	197	
15	Ms.	2	
16	Rev.	8	
17	Sir.	1	
18	the Cou	1	

10. Divide people into families. Consider the case so that if a person has the same last names, then they belong to the same family. And also for more accuracy, add the condition that this person should have siblings/spouse or parents/children.

⊞ Pe	езультаты	<b>а Сообщения</b>
	family	member
1	Abbott	Mrs. Stanton (Rosa Hunt)
2	Abbott	Mr. Rossmore Edward
3	Abbott	Master. Eugene Joseph
4	Abelson	Mrs. Samuel (Hannah Wizosky)
5	Abelson	Mr. Samuel
6	Ahlin	Mrs. Johan (Johanna Persdotter Larsson)
7	Aks	Mrs. Sam (Leah Rosen)
8	Aks	Master. Philip Frank
9	Allison	Mr. Hudson Joshua Creighton
10	Allison	Master. Hudson Trevor
11	Allison	Miss. Helen Loraine
12	Allison	Mrs. Hudson J C (Bessie Waldo Daniels)
13	Ander	Miss. Carla Christine Nielsine
14	Ander	Mr. Anders Johan
15	Ander	Miss. Erna Alexandra
16	Ander	Miss. Ellis Anna Maria
17	Ander	Miss. Ingeborg Constanzia
18	Ander	Miss. Sigrid Elisabeth
19	Ander	Mrs. Anders Johan (Alfrida Konstantia B
20	Ander	Miss. Ida Augusta Margareta
21	Ander	Master. Sigvard Harald Elias
22	Ander	Miss. Ebba Iris Alfrida
23	Andre	Miss. Kornelia Theodosia

11. Write a query to display the number of family members for each passenger, taking into account this passenger.

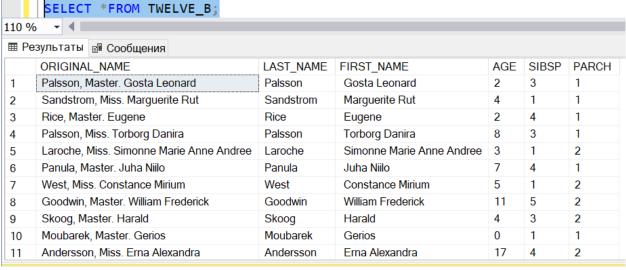
	Passengerld	Name	num_of_members
1	846	Abbing, Mr. Anthony	1
2	1284	Abbott, Master. Eugene Joseph	3
3	747	Abbott, Mr. Rossmore Edward	3
4	280	Abbott, Mrs. Stanton (Rosa Hunt)	3
5	1237	Abelseth, Miss. Karen Marie	1
6	949	Abelseth, Mr. Olaus Jorgensen	1
7	309	Abelson, Mr. Samuel	2
8	875	Abelson, Mrs. Samuel (Hannah Wizosky)	2
9	1143	Abrahamsson, Mr. Abraham August Johannes	1
10	900	Abrahim, Mrs. Joseph (Sophie Halaut Easu)	1
11	366	Adahl, Mr. Mauritz Nils Martin	1
12	402	Adams, Mr. John	1
13	41	Ahlin, Mrs. Johan (Johanna Persdotter Larss	2
14	1199	Aks, Master. Philip Frank	2
15	856	Aks, Mrs. Sam (Leah Rosen)	2

12. Separate children and parents. Create views for each of the below queries. The last names and first names of passengers should be in different columns.

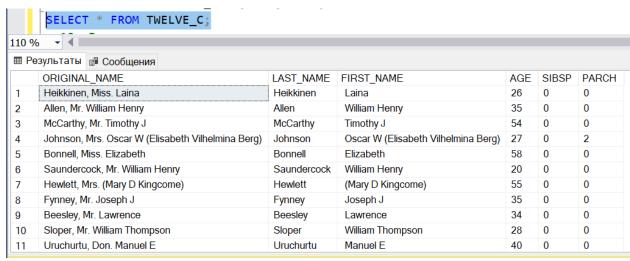
A) Write a query to display the children traveling without their parents



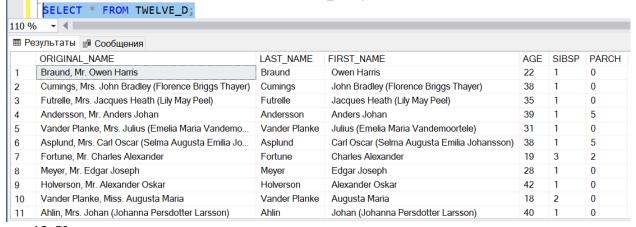
B) Write a query to display the children traveling with their parents.



C) Write a query to display the single parents (without SibSp).



D) Write a query to display the parents who have SibSp.



13. Your query.