

## Tutorial:

[https://www.youtube.com/watch?v=kW5GsrRqv-M&ab\\_channel=BhaskarReddyPulsani](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 %

Сообщения

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
    PRINT 'CHILD!';
ELSE
    PRINT 'ADULT!';
```

110 %

Сообщения

ADULT!

Время выполнения: 2022-03-25T00:18:10.3829021+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
1	Braund
2	Cumings
3	Heikkinen
4	Futrelle
5	Allen
6	Moran
7	McCarthy
8	Palsson
9	Johnson
10	Nasser
11	Sandstrom

## 1. Import titanic.xls into your DBMS.

Результаты Сообщения												
	PASSENGERID	SURVIVED	PCCLASS	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 Thayer)	female	38	1	0	PC 17599	71,28	C85	C
3	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	STON/O2. 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	C
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	Saunders, 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 Vanderm...	female	31	1	0	345763	18	NULL	S
20	20	1	3	Masselmani, Mrs. Fatima	female	0	0	0	2649	7,23	NULL	C
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	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia L...	female	38	1	5	347077	31,30	NULL	S

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

Сообщения

matches

Время выполнения: 2022-03-24T11:37:11.2681877+06:00

## 3. Count the number of different cabins.

Результаты Сообщения		
	CABIN	NUM
1	NULL	1014
2	A10	1
3	A11	1
4	A14	1
5	A16	1
6	A18	1
7	A19	1
8	A20	1
9	A21	1
10	A23	1
11	A24	1
12	A26	1
13	A29	1
14	A31	1
15	A32	1
16	A34	3
17	A36	1
18	A5	1
19	A6	1
20	A7	1
21	A9	1
22	B10	1
23	B101	1
24	B102	1
25	B11	1

Запрос успешно выполнен.

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

Результаты Сообщения												
	PassengerId	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.

Результаты Сообщения		
	Gender	percentage
1	female	77.935222672064
2	male	22.064777327935

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

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.

Результаты Сообщения													
	PASSENGERID	SURVIVED	PCCLASS	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 Thayer)	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	C	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	Saunderscock, 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 Vanderm...	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.

Результаты Сообщения				
	original_name	last_name	first_name	maiden_name
1	Braund, Mr. Owen Harris	Braund	Owen Harris	
2	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	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	Saunderscock, 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.)

	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.**

	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.**

	PassengerId	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	Abraham, 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**

```
SELECT * FROM TWELVE_A;
```

--12--R

	ORIGINAL_NAME	LAST_NAME	FIRST_NAME	AGE	SIBSP	PARCH
1	Moran, Mr. James	Moran	James	0	0	0
2	Nasser, Mrs. Nicholas (Adele Achem)	Nasser	Nicholas (Adele Achem)	14	1	0
3	Vestrom, Miss. Hulda Amanda Adolfina	Vestrom	Hulda Amanda Adolfina	14	0	0
4	Williams, Mr. Charles Eugene	Williams	Charles Eugene	0	0	0
5	Masselmani, Mrs. Fatima	Masselmani	Fatima	0	0	0
6	McGowan, Miss. Anna "Annie"	McGowan	Anna "Annie"	15	0	0
7	Emir, Mr. Farred Chehab	Emir	Farred Chehab	0	0	0
8	O'Dwyer, Miss. Ellen "Nellie"	O'Dwyer	Ellen "Nellie"	0	0	0
9	Todoroff, Mr. Lalio	Todoroff	Lalio	0	0	0
10	Spencer, Mrs. William Augustus (Mari...	Spencer	William Augustus (Mar...	0	1	0

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

```
SELECT * FROM TWELVE_B;
```

	ORIGINAL_NAME	LAST_NAME	FIRST_NAME	AGE	SIBSP	PARCH
1	Palsson, Master. Gosta Leonard	Palsson	Gosta Leonard	2	3	1
2	Sandstrom, Miss. Marguerite Rut	Sandstrom	Marguerite Rut	4	1	1
3	Rice, Master. Eugene	Rice	Eugene	2	4	1
4	Palsson, Miss. Torborg Danira	Palsson	Torborg Danira	8	3	1
5	Laroche, Miss. Simonne Marie Anne Andree	Laroche	Simonne Marie Anne Andree	3	1	2
6	Panula, Master. Juha Niilo	Panula	Juha Niilo	7	4	1
7	West, Miss. Constance Mirium	West	Constance Mirium	5	1	2
8	Goodwin, Master. William Frederick	Goodwin	William Frederick	11	5	2
9	Skoog, Master. Harald	Skoog	Harald	4	3	2
10	Moubarek, Master. Gerios	Moubarek	Gerios	0	1	1
11	Andersson, Miss. Erna Alexandra	Andersson	Erna Alexandra	17	4	2

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

SELECT \* FROM TWELVE\_C;

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Результаты Сообщения

	ORIGINAL_NAME	LAST_NAME	FIRST_NAME	AGE	SIBSP	PARCH
1	Heikkinen, Miss. Laina	Heikkinen	Laina	26	0	0
2	Allen, Mr. William Henry	Allen	William Henry	35	0	0
3	McCarthy, Mr. Timothy J	McCarthy	Timothy J	54	0	0
4	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	Johnson	Oscar W (Elisabeth Vilhelmina Berg)	27	0	2
5	Bonnell, Miss. Elizabeth	Bonnell	Elizabeth	58	0	0
6	Saunderscock, Mr. William Henry	Saunderscock	William Henry	20	0	0
7	Hewlett, Mrs. (Mary D Kingcome)	Hewlett	(Mary D Kingcome)	55	0	0
8	Fynney, Mr. Joseph J	Fynney	Joseph J	35	0	0
9	Beesley, Mr. Lawrence	Beesley	Lawrence	34	0	0
10	Sloper, Mr. William Thompson	Sloper	William Thompson	28	0	0
11	Uruchurtu, Don. Manuel E	Uruchurtu	Manuel E	40	0	0

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

SELECT \* FROM TWELVE\_D;

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Результаты Сообщения

	ORIGINAL_NAME	LAST_NAME	FIRST_NAME	AGE	SIBSP	PARCH
1	Braund, Mr. Owen Harris	Braund	Owen Harris	22	1	0
2	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	Cumings	John Bradley (Florence Briggs Thayer)	38	1	0
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	Futrelle	Jacques Heath (Lily May Peel)	35	1	0
4	Andersson, Mr. Anders Johan	Andersson	Anders Johan	39	1	5
5	Vander Planke, Mrs. Julius (Emelia Maria Vandemo...)	Vander Planke	Julius (Emelia Maria Vandemoortele)	31	1	0
6	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Jo...)	Asplund	Carl Oscar (Selma Augusta Emilia Johansson)	38	1	5
7	Fortune, Mr. Charles Alexander	Fortune	Charles Alexander	19	3	2
8	Meyer, Mr. Edgar Joseph	Meyer	Edgar Joseph	28	1	0
9	Holverson, Mr. Alexander Oskar	Holverson	Alexander Oskar	42	1	0
10	Vander Planke, Miss. Augusta Maria	Vander Planke	Augusta Maria	18	2	0
11	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)	Ahlin	Johan (Johanna Persdotter Larsson)	40	1	0

**13. Your query.**