JSC "Kazakh British Technical University"
School of Mathematic and Cybernetics

Analysis of Data Bases

Laboratory Work #6
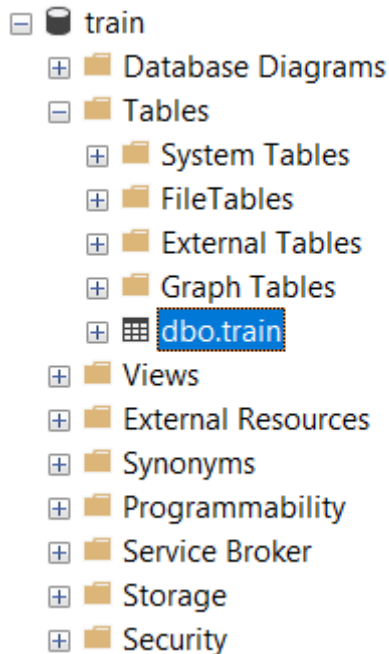
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Almaty 2021

Exercises:

1) Import train.xls into your DBMS

Looking at the database train (that was created) going though the tables folder we can see 'dbo.train' file that appeared only after taking the imported file from xls format into sql.

The first possible 1000 rows from the gotten table can be seen below:

```
/****** Script for SelectTopNRows command from SSMS  ******/
SELECT TOP (1000) [PassengerId]
      ,[Survived]
      ,[Pclass]
      ,[Name]
      ,[Gender]
      ,[Age]
      ,[SibSp]
      ,[ParCh]
      ,[Ticket]
      ,[Fare]
      ,[Cabin]
      ,[Embarked]
      ,[cabin_repetition]
  FROM [train].[dbo].[train]
```

	PassengerId	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked	cabin_repetition
1	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	521171	45839	NULL	S	687
2	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thay...	female	38	1	0	17599	71,2833	C85	C	1
3	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	23101282	7,925	NULL	S	687
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	687
6	6	0	3	Moran, Mr. James	male	NULL	0	0	330877	980160	NULL	Q	687
7	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51,8625	E46	S	1
8	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21,075	NULL	S	687
9	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11,1333	NULL	S	687
10	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30,0708	NULL	C	687
11	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	9549	43297	G6	S	4
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	52151	43228	NULL	S	687
14	14	0	3	Andersson, Mr. Anders Johan	male	39	1	5	347082	31,275	NULL	S	687
15	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina	female	14	0	0	350406	2426124	NULL	S	687
16	16	1	2	Hewlett, Mrs. (Mary D Kingcome)	female	55	0	0	248706	16	NULL	S	687
17	17	0	3	Rice, Master. Eugene	male	2	4	1	382652	29,125	NULL	Q	687
18	18	1	2	Williams, Mr. Charles Eugene	male	NULL	0	0	244373	13	NULL	S	687
19	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vandem...	female	31	1	0	345763	18	NULL	S	687
20	20	1	3	Masselmani, Mrs. Fatima	female	NULL	0	0	2649	7,225	NULL	C	687
21	21	0	2	Fynney, Mr. Joseph J	male	35	0	0	239865	26	NULL	S	687
22	22	1	2	Beesley, Mr. Lawrence	male	34	0	0	248698	13	D56	S	1
23	23	1	3	McGowan, Miss. Anna "Annie"	female	15	0	0	330923	8,0292	NULL	Q	687
24	24	1	1	Sloper, Mr. William Thompson	male	28	0	0	113788	35,5	A6	S	1
25	25	0	3	Palsson, Miss. Torborg Danira	female	8	3	1	349909	21,075	NULL	S	687
26	26	1	3	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Jo...	female	38	1	5	347077	31,3875	NULL	S	687
27	27	0	3	Emir, Mr. Farred Chehab	male	NULL	0	0	2631	7,225	NULL	C	687
28	28	0	1	Fortune, Mr. Charles Alexander	male	19	3	2	19950	263	C23...	S	4
29	29	1	3	O'Dwyer, Miss. Ellen "Nellie"	female	NULL	0	0	330959	2517435	NULL	Q	687
30	30	0	3	Todoroff, Mr. Lalio	male	NULL	0	0	349216	2578065	NULL	S	687
31	31	0	1	Uruchurtu, Don. Manuel E	male	40	0	0	17601	27,7208	NULL	C	687
32	32	1	1	Spencer, Mrs. William Augustus (Marie Eugenie)	female	NULL	1	0	17569	146,52...	B78	C	1
33	33	1	3	Glynn, Miss. Mary Agatha	female	NULL	0	0	335677	27576	NULL	Q	687
34	34	0	2	Wheadon, Mr. Edward H	male	66	0	0	24579	43230	NULL	S	687

. . . .

	PassengerId	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked	cabin_repetition
858	858	1	1	Daly, Mr. Peter Denis	male	51	0	0	113055	26,55	E17	S	1
859	859	1	3	Baclini, Mrs. Solomon (Latifa Qurban)	female	24	0	3	2666	19,2583	NULL	C	687
860	860	0	3	Razi, Mr. Raihed	male	NULL	0	0	2629	143359	NULL	C	687
861	861	0	3	Hansen, Mr. Claus Peter	male	41	2	0	350026	14,1083	NULL	S	687
862	862	0	2	Giles, Mr. Frederick Edward	male	21	1	0	28134	43231	NULL	S	687
863	863	1	1	Swift, Mrs. Frederick Joel (Margaret Welles Barron)	female	48	0	0	17466	25,9292	D17	S	2
864	864	0	3	Sage, Miss. Dorothy Edith "Dolly"	female	NULL	8	2	2343	69,55	NULL	S	687
865	865	0	2	Gill, Mr. John William	male	24	0	0	233866	13	NULL	S	687
866	866	1	2	Bystrom, Mrs. (Karolina)	female	42	0	0	236852	13	NULL	S	687
867	867	1	2	Duran y More, Miss. Asuncion	female	27	1	0	2149	13,8583	NULL	C	687
868	868	0	1	Roebling, Mr. Washington Augustus II	male	31	0	0	17590	50,4958	A24	S	1
869	869	0	3	van Melkebeke, Mr. Philemon	male	NULL	0	0	345777	43229	NULL	S	687
870	870	1	3	Johnson, Master. Harold Theodor	male	4	1	1	347742	11,1333	NULL	S	687
871	871	0	3	Balkic, Mr. Cerin	male	26	0	0	349248	2578065	NULL	S	687
872	872	1	1	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47	1	1	11751	52,5542	D35	S	2
873	873	0	1	Carlsson, Mr. Frans Olof	male	33	0	0	695	5	B51...	S	2
874	874	0	3	Vander Cruyssen, Mr. Victor	male	47	0	0	345765	9	NULL	S	687
875	875	1	2	Abelson, Mrs. Samuel (Hannah Wizosky)	female	28	1	0	3381	24	NULL	C	687
876	876	1	3	Najib, Miss. Adele Kiamie "Jane"	female	15	0	0	2667	7,225	NULL	C	687
877	877	0	3	Gustafsson, Mr. Alfred Ossian	male	20	0	0	7534	2395506	NULL	S	687
878	878	0	3	Petroff, Mr. Nedelio	male	19	0	0	349212	2578065	NULL	S	687
879	879	0	3	Laleff, Mr. Kristo	male	NULL	0	0	349217	2578065	NULL	S	687
880	880	1	1	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	female	56	0	1	11767	83,1583	C50	C	1
881	881	1	2	Shelley, Mrs. William (Imanita Parrish Hall)	female	25	0	1	230433	26	NULL	S	687
882	882	0	3	Markun, Mr. Johann	male	33	0	0	349257	2578065	NULL	S	687
883	883	0	3	Dahlberg, Miss. Gerda Ulrika	female	22	0	0	7552	1193522	NULL	S	687
884	884	0	2	Banfield, Mr. Frederick James	male	28	0	0	34068	43230	NULL	S	687
885	885	0	3	Sutehall, Mr. Henry Jr	male	25	0	0	392076	43227	NULL	S	687
886	886	0	3	Rice, Mrs. William (Margaret Norton)	female	39	0	5	382652	29,125	NULL	Q	687
887	887	0	2	Montvila, Rev. Juozas	male	27	0	0	211536	13	NULL	S	687
888	888	1	1	Graham, Miss. Margaret Edith	female	19	0	0	112053	30	B42	S	1
889	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NULL	1	2	6607	23,45	NULL	S	687
890	890	1	1	Behr, Mr. Karl Howell	male	26	0	0	111369	30	C148	C	1
891	891	0	3	Dooley, Mr. Patrick	male	32	0	0	370376	27576	NULL	Q	687

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

```sql
Create view men_number as
select count(*) as male_number from train where gender = 'male';

Create view woomen_number as
select count(*) as female_number from train where gender = 'female';

Create view people_number as
select count(*) as total_number from train;

select * from men_number,woomen_number,people_number;
/*Group people by gender and check if the number matches the total number of passengers*/
```

	male_number	female_number	total_number
1	577	314	891

3) Count the number of different cabins.

```sql
Create view number_different_cabins as
select Cabin, COUNT(PassengerId) as number_repetition from train group by Cabin;

select * from number_different_cabins;
/*Count the number of different cabins*/
```

	Cabin	number_repetition
1	NULL	687
2	A10	1
3	A14	1
4	A16	1
5	A19	1
6	A20	1
7	A23	1
8	A24	1
9	A26	1
10	A31	1
11	A32	1
12	A34	1
13	A36	1
14	A5	1
15	A6	1
16	A7	1
17	B101	1
18	B102	1
19	B18	2
20	B19	1
21	B20	2
22	B22	2
23	B28	2
24	B3	1
25	B30	1
26	B35	2
27	B37	1
28	B38	1
29	B39	1
30	B4	1
31	B41	1
32	B42	1
33	B49	2
34	B5	2

...

	Cabin	number_repetition
52	C104	1
53	C106	1
54	C110	1
55	C111	1
56	C118	1
57	C123	2
58	C124	2
59	C125	2
60	C126	2
61	C128	1
62	C148	1
63	C2	2
64	C22 ...	3
65	C23 ...	4
66	C30	1
67	C32	1
68	C45	1
69	C46	1
70	C47	1
71	C49	1
72	C50	1
73	C52	2
74	C54	1
75	C62 ...	1
76	C65	2
77	C68	2
78	C7	1
79	C70	1
80	C78	2
81	C82	1
82	C83	2
83	C85	1
84	C86	1
85	C87	1
86	C90	1

	Cabin	number_repetition
115	D7	1
116	D9	1
117	E10	1
118	E101	3
119	E12	1
120	E121	2
121	E17	1
122	E24	2
123	E25	2
124	E31	1
125	E33	2
126	E34	1
127	E36	1
128	E38	1
129	E40	1
130	E44	2
131	E46	1
132	E49	1
133	E50	1
134	E58	1
135	E63	1
136	E67	2
137	E68	1
138	E77	1
139	E8	2
140	F E69	1
141	F G63	1
142	F G73	2
143	F2	3
144	F33	3
145	F38	1
146	F4	2
147	G6	4
148	T	1

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

```
Create view passengers_without_departure as
select * from train where Embarked is NULL;

select * from passengers_without_departure;
/*Write a query to display information about those passengers whose data does not indicate
the port of departure.*/
```

	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.

```
CREATE VIEW survived_people_genders AS
select (count(survived))*100 as survived_percent,gender,survived from (select survived, gender from train where survived =1)a group by gender,Survived;

CREATE VIEW all_people as
select count(survived) as all_sur_people,survived from train where survived = 1 group by survived;

select s_p_g.survived_percent/a_p.all_sur_people as per_cent,s_p_g.gender from survived_people_genders s_p_g join all_people a_p
on s_p_g.survived = a_p.survived;
/*Write a query to display the percentage of men and women who survived the disaster.*/
```

	per_cent	gender
1	68	female
2	31	male

6) Write a query to display the average age of the victims.

```
CREATE VIEW average_age_victims as
select AVG(age) average_age from train where survived = 0 and age is not NULL;

select * from average_age_victims;
/*Write a query to display the average age of the victims.*/
```

	average_age
1	30,6049528301887

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

```sql
ALTER table train
add cabin_repetition integer;

UPDATE train
SET cabin_repetition = (select count(*) from train as t group by cabin having t.Cabin=train.cabin);
/*Fill in all the columns with non NULL cabin type*/

UPDATE train
SET cabin_repetition = number_repetition
from (select count(PassengerId) as number_repetition from train group by Cabin)a where cabin is NULL;
/*Fill in all the columns with correspondent number where cabin type is NULL*/

select * from train;
/*Add a column indicating the number of repetitions for each cabin. The absence of a cabin
number should also be taken into account.*/
```

	PassengerId	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked	cabin_repetition
1	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	521171	45839	NULL	S	687
2	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thay...	female	38	1	0	17599	71,2833	C85	C	1
3	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	23101282	7,925	NULL	S	687
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	687
6	6	0	3	Moran, Mr. James	male	NULL	0	0	330877	980160	NULL	Q	687
7	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51,8625	E46	S	1
8	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21,075	NULL	S	687
9	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11,1333	NULL	S	687
10	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30,0708	NULL	C	687
11	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	9549	43297	G6	S	4
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	52151	43228	NULL	S	687
14	14	0	3	Andersson, Mr. Anders Johan	male	39	1	5	347082	31,275	NULL	S	687
15	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina	female	14	0	0	350406	24261...	NULL	S	687
16	16	1	2	Hewlett, Mrs. (Mary D Kingcome)	female	55	0	0	248706	16	NULL	S	687
17	17	0	3	Rice, Master. Eugene	male	2	4	1	382652	29,125	NULL	Q	687
18	18	1	2	Williams, Mr. Charles Eugene	male	NULL	0	0	244373	13	NULL	S	687
19	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vandem...	female	31	1	0	345763	18	NULL	S	687
20	20	1	3	Masselmani, Mrs. Fatima	female	NULL	0	0	2649	7,225	NULL	C	687
21	21	0	2	Fynney, Mr. Joseph J	male	35	0	0	239865	26	NULL	S	687
22	22	1	2	Beesley, Mr. Lawrence	male	34	0	0	248698	13	D56	S	1
23	23	1	3	McGowan, Miss. Anna "Annie"	female	15	0	0	330923	8,0292	NULL	Q	687
24	24	1	1	Sloper, Mr. William Thompson	male	28	0	0	113788	35,5	A6	S	1
25	25	0	3	Palsson, Miss. Torborg Danira	female	8	3	1	349909	21,075	NULL	S	687
26	26	1	3	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Jo...	female	38	1	5	347077	31,3875	NULL	S	687
27	27	0	3	Emir, Mr. Farred Chehab	male	NULL	0	0	2631	7,225	NULL	C	687
28	28	0	1	Fortune, Mr. Charles Alexander	male	19	3	2	19950	263	C23...	S	4
29	29	1	3	O'Dwyer, Miss. Ellen "Nellie"	female	NULL	0	0	330959	25174...	NULL	Q	687
30	30	0	3	Todoroff, Mr. Lalio	male	NULL	0	0	349216	25780...	NULL	S	687
31	31	0	1	Uruchurtu, Don. Manuel E	male	40	0	0	17601	27,7208	NULL	C	687
32	32	1	1	Spencer, Mrs. William Augustus (Marie Eugenie)	female	NULL	1	0	17569	146,5...	B78	C	1
33	33	1	3	Glynn, Miss. Mary Agatha	female	NULL	0	0	335677	27576	NULL	Q	687
34	34	0	2	Wheadon, Mr. Edward H	male	66	0	0	24579	43230	NULL	S	687

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	PassengerId	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked	cabin_repetition
859	859	1	3	Baclini, Mrs. Solomon (Latifa Qurban)	female	24	0	3	2666	19,2583	NULL	C	687
860	860	0	3	Razi, Mr. Raihed	male	NULL	0	0	2629	143359	NULL	C	687
861	861	0	3	Hansen, Mr. Claus Peter	male	41	2	0	350026	14,1083	NULL	S	687
862	862	0	2	Giles, Mr. Frederick Edward	male	21	1	0	28134	43231	NULL	S	687
863	863	1	1	Swift, Mrs. Frederick Joel (Margaret Welles Barron)	female	48	0	0	17466	25,9292	D17	S	2
864	864	0	3	Sage, Miss. Dorothy Edith "Dolly"	female	NULL	8	2	2343	69,55	NULL	S	687
865	865	0	2	Gill, Mr. John William	male	24	0	0	233866	13	NULL	S	687
866	866	1	2	Bystrom, Mrs. (Karolina)	female	42	0	0	236852	13	NULL	S	687
867	867	1	2	Duran y More, Miss. Asuncion	female	27	1	0	2149	13,8583	NULL	C	687
868	868	0	1	Roebling, Mr. Washington Augustus II	male	31	0	0	17590	50,4958	A24	S	1
869	869	0	3	van Melkebeke, Mr. Philemon	male	NULL	0	0	345777	43229	NULL	S	687
870	870	1	3	Johnson, Master. Harold Theodor	male	4	1	1	347742	11,1333	NULL	S	687
871	871	0	3	Balkic, Mr. Cerin	male	26	0	0	349248	25780...	NULL	S	687
872	872	1	1	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47	1	1	11751	52,5542	D35	S	2
873	873	0	1	Carlsson, Mr. Frans Olof	male	33	0	0	695	5	B51...	S	2
874	874	0	3	Vander Cruyssen, Mr. Victor	male	47	0	0	345765	9	NULL	S	687
875	875	1	2	Abelson, Mrs. Samuel (Hannah Wizosky)	female	28	1	0	3381	24	NULL	C	687
876	876	1	3	Najib, Miss. Adele Kiamie "Jane"	female	15	0	0	2667	7,225	NULL	C	687
877	877	0	3	Gustafsson, Mr. Alfred Ossian	male	20	0	0	7534	23955...	NULL	S	687
878	878	0	3	Petroff, Mr. Nedelio	male	19	0	0	349212	25780...	NULL	S	687
879	879	0	3	Laleff, Mr. Kristo	male	NULL	0	0	349217	25780...	NULL	S	687
880	880	1	1	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	female	56	0	1	11767	83,1583	C50	C	1
881	881	1	2	Shelley, Mrs. William (Imanita Parrish Hall)	female	25	0	1	230433	26	NULL	S	687
882	882	0	3	Markun, Mr. Johann	male	33	0	0	349257	25780...	NULL	S	687
883	883	0	3	Dahlberg, Miss. Gerda Ulrika	female	22	0	0	7552	11935...	NULL	S	687
884	884	0	2	Banfield, Mr. Frederick James	male	28	0	0	34068	43230	NULL	S	687
885	885	0	3	Sutehall, Mr. Henry Jr	male	25	0	0	392076	43227	NULL	S	687
886	886	0	3	Rice, Mrs. William (Margaret Norton)	female	39	0	5	382652	29,125	NULL	Q	687
887	887	0	2	Montvila, Rev. Juozas	male	27	0	0	211536	13	NULL	S	687
888	888	1	1	Graham, Miss. Margaret Edith	female	19	0	0	112053	30	B42	S	1
889	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NULL	1	2	6607	23,45	NULL	S	687
890	890	1	1	Behr, Mr. Karl Howell	male	26	0	0	111369	30	C148	C	1
891	891	0	3	Dooley, Mr. Patrick	male	32	0	0	370376	27576	NULL	Q	687

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.

```sql
CREATE VIEW without_name as
select name,
SUBSTRING(name,1,CHARINDEX(',',name)-1)as lastName,
SUBSTRING(name,CHARINDEX('(',name),(CHARINDEX(')',name) - CHARINDEX('(',name))+1) as maiden_name,PassengerId from train;

CREATE VIEW married_names as
select SUBSTRING(name,CHARINDEX('.',name)+1,CHARINDEX(' ',name,CHARINDEX('(',name)-1) - CHARINDEX('.',name))
as first_name,PassengerId from train where CHARINDEX('(',name) !=0;

CREATE VIEW not_married_names as
select SUBSTRING(name,CHARINDEX('.',name)+1,len(name) - CHARINDEX('.',name))
as first_name,PassengerId from train where CHARINDEX('(',name) =0;

CREATE VIEW total_names as
select * from married_names
UNION
select * from not_married_names ;

select w_n.name,w_n.lastName,t_n.first_name,w_n.maiden_name from total_names t_n join without_name w_n
on t_n.PassengerId = w_n.PassengerId;

/*Separate the passenger names into four columns: the original name column(ПО УМОЛЧАНИЯ изначально), the passenger  last name(ПЕРВОЕ до запятой) column,
the passenger first name(ПОСЛЕ МР, МИСС..ВСЕ ИМЯ) column without regalia, and the maiden name column of married women(ТО ЧТО В СКОБКАХ).*/
```

	name	lastName	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 Berg)
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 Aman...	
16	Hewlett, Mrs. (Mary D Kingcome)	Hewlett		(Mary D Kingcome)
17	Rice, Master. Eugene	Rice	Eugene	
18	Williams, Mr. Charles Eugene	Williams	Charles Euge...	
19	Vander Planke, Mrs. Julius (Emelia Maria Vandem...	Vander ...	Julius	(Emelia Maria Vandemoo...
20	Masselmani, Mrs. Fatima	Massel...	Fatima	
21	Fynney, Mr. Joseph J	Fynney	Joseph J	
22	Beesley, Mr. Lawrence	Beesley	Lawrence	
23	McGowan, Miss. Anna "Annie"	McGowan	Anna "Annie"	
24	Sloper, Mr. William Thompson	Sloper	William Tho...	
25	Palsson, Miss. Torborg Danira	Palsson	Torborg Danira	
26	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Jo...	Asplund	Carl Oscar	(Selma Augusta Emilia Jo...
27	Emir, Mr. Farred Chehab	Emir	Farred Chehab	
28	Fortune, Mr. Charles Alexander	Fortune	Charles Alex...	
29	O'Dwyer, Miss. Ellen "Nellie"	O'Dwyer	Ellen "Nellie"	
30	Todoroff, Mr. Lalio	Todoroff	Lalio	
31	Uruchurtu, Don. Manuel E	Uruchurtu	Manuel E	
32	Spencer, Mrs. William Augustus (Marie Eugenie)	Spencer	William Augu...	(Marie Eugenie)
33	Glynn, Miss. Mary Agatha	Glynn	Mary Agatha	

	name	lastName	first_name	maiden_name
859	Baclini, Mrs. Solomon (Latifa Qurban)	Baclini	Solomon	(Latifa Qurban)
860	Razi, Mr. Raihed	Razi	Raihed	
861	Hansen, Mr. Claus Peter	Hansen	Claus Peter	
862	Giles, Mr. Frederick Edward	Giles	Frederick Ed...	
863	Swift, Mrs. Frederick Joel (Margaret Welles Barron)	Swift	Frederick Joel	(Margaret Welles Barron)
864	Sage, Miss. Dorothy Edith "Dolly"	Sage	Dorothy Edith...	
865	Gill, Mr. John William	Gill	John William	
866	Bystrom, Mrs. (Karolina)	Bystrom		(Karolina)
867	Duran y More, Miss. Asuncion	Duran y ...	Asuncion	
868	Roebling, Mr. Washington Augustus II	Roebling	Washington ...	
869	van Melkebeke, Mr. Philemon	van Mel...	Philemon	
870	Johnson, Master. Harold Theodor	Johnson	Harold Theo...	
871	Balkic, Mr. Cerin	Balkic	Cerin	
872	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	Beckwith	Richard Leon...	(Sallie Monypeny)
873	Carlsson, Mr. Frans Olof	Carlsson	Frans Olof	
874	Vander Cruyssen, Mr. Victor	Vander ...	Victor	
875	Abelson, Mrs. Samuel (Hannah Wizosky)	Abelson	Samuel	(Hannah Wizosky)
876	Najib, Miss. Adele Kiamie "Jane"	Najib	Adele Kiamie...	
877	Gustafsson, Mr. Alfred Ossian	Gustafss...	Alfred Ossian	
878	Petroff, Mr. Nedelio	Petroff	Nedelio	
879	Laleff, Mr. Kristo	Laleff	Kristo	
880	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	Potter	Thomas Jr	(Lily Alexenia Wilson)
881	Shelley, Mrs. William (Imanita Parrish Hall)	Shelley	William	(Imanita Parrish Hall)
882	Markun, Mr. Johann	Markun	Johann	
883	Dahlberg, Miss. Gerda Ulrika	Dahlberg	Gerda Ulrika	
884	Banfield, Mr. Frederick James	Banfield	Frederick Ja...	
885	Sutehall, Mr. Henry Jr	Sutehall	Henry Jr	
886	Rice, Mrs. William (Margaret Norton)	Rice	William	(Margaret Norton)
887	Montvila, Rev. Juozas	Montvila	Juozas	
888	Graham, Miss. Margaret Edith	Graham	Margaret Edith	
889	Johnston, Miss. Catherine Helen "Carrie"	Johnston	Catherine He...	
890	Behr, Mr. Karl Howell	Behr	Karl Howell	
891	Dooley, Mr. Patrick	Dooley	Patrick	

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

```sql
CREATE VIEW allRegalies as
select substring(name,CHARINDEX(',',name)+1,(CHARINDEX('.',name)-CHARINDEX(',',name))-1) as regalia from train;

select regalia, count(regalia) as number_of_repetition from allRegalies group by regalia;
/*Show the number of regalia (Mr., Mrs, Miss, Master, Rev, Col, etc.)*/
```

	regalia	number_of_repetition
1	Capt	1
2	Col	2
3	Don	1
4	Dr	7
5	Jonkheer	1
6	Lady	1
7	Major	2
8	Master	40
9	Miss	182
10	Mlle	2
11	Mme	1
12	Mr	517
13	Mrs	125
14	Ms	1
15	Rev	6
16	Sir	1
17	the Cou...	1

10) Divide people into families. More than one select may be needed to complete the task.

```
create view condition_one as
select * from train where SibSp >= 0 and ParCh >= 1;
Create view condition_two as
select * from train where SibSp >= 1 and ParCh = 0;


select * from condition_one
UNION
select * from condition_two;
```

	PassengerId	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked	cabin_repetition
1	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	521171	45839	NULL	S	687
2	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	female	38	1	0	17599	71,2833	C85	C	1
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53,1	C123	S	2
4	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21,075	NULL	S	687
5	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11,1333	NULL	S	687
6	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30,0708	NULL	C	687
7	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	9549	43297	G6	S	4
8	14	0	3	Andersson, Mr. Anders Johan	male	39	1	5	347082	31,275	NULL	S	687
9	17	0	3	Rice, Master. Eugene	male	2	4	1	382652	29,125	NULL	Q	687
10	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vandemo...	female	31	1	0	345763	18	NULL	S	687
11	25	0	3	Palsson, Miss. Torborg Danira	female	8	3	1	349909	21,075	NULL	S	687
12	26	1	3	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Joh...	female	38	1	5	347077	31,3875	NULL	S	687
13	28	0	1	Fortune, Mr. Charles Alexander	male	19	3	2	19950	263	C23 C25 C27	S	4
14	32	1	1	Spencer, Mrs. William Augustus (Marie Eugenie)	female	NULL	1	0	17569	146,5208	B78	C	1
15	35	0	1	Meyer, Mr. Edgar Joseph	male	28	1	0	17604	82,1708	NULL	C	687
16	36	0	1	Holverson, Mr. Alexander Oskar	male	42	1	0	113789	52	NULL	S	687
17	39	0	3	Vander Planke, Miss. Augusta Maria	female	18	2	0	345764	18	NULL	S	687
18	40	1	3	Nicola-Yarred, Miss. Jamila	female	14	1	0	2651	189137	NULL	C	687
19	41	0	3	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)	female	40	1	0	7546	9,475	NULL	S	687
20	42	0	2	Turpin, Mrs. William John Robert (Dorothy Ann Won...	female	27	1	0	11668	21	NULL	S	687
21	44	1	2	Laroche, Miss. Simonne Marie Anne Andree	female	3	1	2	2123	41,5792	NULL	C	687
22	47	0	3	Lennon, Mr. Denis	male	NULL	1	0	370371	43235	NULL	Q	687
23	49	0	3	Samaan, Mr. Youssef	male	NULL	2	0	2662	21,6792	NULL	C	687
24	50	0	3	Arnold-Franchi, Mrs. Josef (Josefine Franchi)	female	18	1	0	349237	43329	NULL	S	687
25	51	0	3	Panula, Master. Juha Niilo	male	7	4	1	3101...	39,6875	NULL	S	687
26	53	1	1	Harper, Mrs. Henry Sleeper (Myna Haxtun)	female	49	1	0	17572	76,7292	D33	C	2
27	54	1	2	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)	female	29	1	0	2926	26	NULL	S	687
28	55	0	1	Ostby, Mr. Engelhart Cornelius	male	65	0	1	113509	61,9792	B30	C	1
29	59	1	2	West, Miss. Constance Mirium	female	5	1	2	34651	27,75	NULL	S	687
30	60	0	3	Goodwin, Master. William Frederick	male	11	5	2	2144	46,9	NULL	S	687
31	63	0	1	Harris, Mr. Henry Birkhardt	male	45	1	0	36973	83,475	C83	S	2
32	64	0	3	Skoog, Master. Harald	male	4	3	2	347088	43370	NULL	S	687
33	66	1	3	Moubarek, Master. Gerios	male	NULL	1	1	2661	15,2458	NULL	C	687

...

	PassengerId	Survived	Pclass	Name	Gender	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked	cabin_repetition
323	810	1	1	Chambers, Mrs. Norman Campbell (Bertha Griggs)	female	33	1	0	113806	53,1	E8	S	2
324	814	0	3	Andersson, Miss. Ebba Iris Alfrida	female	6	4	2	347082	31,275	NULL	S	687
325	818	0	2	Mallet, Mr. Albert	male	31	1	1	2079	37,0042	NULL	C	687
326	820	0	3	Skoog, Master. Karl Thorsten	male	10	3	2	347088	43370	NULL	S	687
327	821	1	1	Hays, Mrs. Charles Melville (Clara Jennings Gregg)	female	52	1	1	12749	93,5	B69	S	1
328	824	1	3	Moor, Mrs. (Beila)	female	27	0	1	392096	12,475	E121	S	2
329	825	0	3	Panula, Master. Urho Abraham	male	2	4	1	3101...	39,6875	NULL	S	687
330	828	1	2	Mallet, Master. Andre	male	1	0	2	2079	37,0042	NULL	C	687
331	831	1	3	Yasbeck, Mrs. Antoni (Selini Alexander)	female	15	1	0	2659	14,4542	NULL	C	687
332	832	1	2	Richards, Master. George Sibley	male	0,83	1	1	29106	18,75	NULL	S	687
333	836	1	1	Compton, Miss. Sara Rebecca	female	39	1	1	17756	83,1583	E49	C	1
334	847	0	3	Sage, Mr. Douglas Bullen	male	NULL	8	2	2343	69,55	NULL	S	687
335	849	0	2	Harper, Rev. John	male	28	0	1	248727	33	NULL	S	687
336	850	1	1	Goldenberg, Mrs. Samuel L (Edwiga Grabowska)	female	NULL	1	0	17453	89,1042	C92	C	2
337	851	0	3	Andersson, Master. Sigvard Harald Elias	male	4	4	2	347082	31,275	NULL	S	687
338	853	0	3	Boulos, Miss. Nourelain	female	9	1	1	2678	15,2458	NULL	C	687
339	854	1	1	Lines, Miss. Mary Conover	female	16	0	1	17592	39,4	D28	S	1
340	855	0	2	Carter, Mrs. Ernest Courtenay (Lilian Hughes)	female	44	1	0	244252	26	NULL	S	687
341	856	1	3	Aks, Mrs. Sam (Leah Rosen)	female	18	0	1	392091	13028	NULL	S	687
342	857	1	1	Wick, Mrs. George Dennick (Mary Hitchcock)	female	45	1	1	36928	164,8667	NULL	S	687
343	859	1	3	Baclini, Mrs. Solomon (Latifa Qurban)	female	24	0	3	2666	19,2583	NULL	C	687
344	861	0	3	Hansen, Mr. Claus Peter	male	41	2	0	350026	14,1083	NULL	S	687
345	862	0	2	Giles, Mr. Frederick Edward	male	21	1	0	28134	43231	NULL	S	687
346	864	0	3	Sage, Miss. Dorothy Edith "Dolly"	female	NULL	8	2	2343	69,55	NULL	S	687
347	867	1	2	Duran y More, Miss. Asuncion	female	27	1	0	2149	13,8583	NULL	C	687
348	870	1	3	Johnson, Master. Harold Theodor	male	4	1	1	347742	11,1333	NULL	S	687
349	872	1	1	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47	1	1	11751	52,5542	D35	S	2
350	875	1	2	Abelson, Mrs. Samuel (Hannah Wizosky)	female	28	1	0	3381	24	NULL	C	687
351	880	1	1	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	female	56	0	1	11767	83,1583	C50	C	1
352	881	1	2	Shelley, Mrs. William (Imanita Parrish Hall)	female	25	0	1	230433	26	NULL	S	687
353	886	0	3	Rice, Mrs. William (Margaret Norton)	female	39	0	5	382652	29,125	NULL	Q	687
354	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NULL	1	2	6607	23,45	NULL	S	687

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

```sql
select name, (SibSp + ParCh + 1) as total_number_members  from train;
```

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

	name	total_number_members
1	Braund, Mr. Owen Harris	2
2	Cumings, Mrs. John Bradley (Florence Briggs Thay...	2
3	Heikkinen, Miss. Laina	1
4	Futrelle, Mrs. Jacques Heath (Lily May Peel)	2
5	Allen, Mr. William Henry	1
6	Moran, Mr. James	1
7	McCarthy, Mr. Timothy J	1
8	Palsson, Master. Gosta Leonard	5
9	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	3
10	Nasser, Mrs. Nicholas (Adele Achem)	2
11	Sandstrom, Miss. Marguerite Rut	3
12	Bonnell, Miss. Elizabeth	1
13	Saundercock, Mr. William Henry	1
14	Andersson, Mr. Anders Johan	7
15	Vestrom, Miss. Hulda Amanda Adolfina	1
16	Hewlett, Mrs. (Mary D Kingcome)	1
17	Rice, Master. Eugene	6
18	Williams, Mr. Charles Eugene	1
19	Vander Planke, Mrs. Julius (Emelia Maria Vandem...	2
20	Masselmani, Mrs. Fatima	1
21	Fynney, Mr. Joseph J	1
22	Beesley, Mr. Lawrence	1
23	McGowan, Miss. Anna "Annie"	1
24	Sloper, Mr. William Thompson	1
25	Palsson, Miss. Torborg Danira	5
26	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Jo...	7
27	Emir, Mr. Farred Chehab	1
28	Fortune, Mr. Charles Alexander	6
29	O'Dwyer, Miss. Ellen "Nellie"	1
30	Todoroff, Mr. Lalio	1
31	Uruchurtu, Don. Manuel E	1
32	Spencer, Mrs. William Augustus (Marie Eugenie)	2
33	Glynn, Miss. Mary Agatha	1
34	Wheadon, Mr. Edward H	1

. . .

	name	total_number_members
858	Daly, Mr. Peter Denis	1
859	Baclini, Mrs. Solomon (Latifa Qurban)	4
860	Razi, Mr. Raihed	1
861	Hansen, Mr. Claus Peter	3
862	Giles, Mr. Frederick Edward	2
863	Swift, Mrs. Frederick Joel (Margaret Welles Barron)	1
864	Sage, Miss. Dorothy Edith "Dolly"	11
865	Gill, Mr. John William	1
866	Bystrom, Mrs. (Karolina)	1
867	Duran y More, Miss. Asuncion	2
868	Roebling, Mr. Washington Augustus II	1
869	van Melkebeke, Mr. Philemon	1
870	Johnson, Master. Harold Theodor	3
871	Balkic, Mr. Cerin	1
872	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	3
873	Carlsson, Mr. Frans Olof	1
874	Vander Cruyssen, Mr. Victor	1
875	Abelson, Mrs. Samuel (Hannah Wizosky)	2
876	Najib, Miss. Adele Kiamie "Jane"	1
877	Gustafsson, Mr. Alfred Ossian	1
878	Petroff, Mr. Nedelio	1
879	Laleff, Mr. Kristo	1
880	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	2
881	Shelley, Mrs. William (Imanita Parrish Hall)	2
882	Markun, Mr. Johann	1
883	Dahlberg, Miss. Gerda Ulrika	1
884	Banfield, Mr. Frederick James	1
885	Sutehall, Mr. Henry Jr	1
886	Rice, Mrs. William (Margaret Norton)	6
887	Montvila, Rev. Juozas	1
888	Graham, Miss. Margaret Edith	1
889	Johnston, Miss. Catherine Helen "Carrie"	4
890	Behr, Mr. Karl Howell	1
891	Dooley, Mr. Patrick	1

12) GENERAL PREVIEW: 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.

Part for the Children view:

```sql
Create view children_last_names as
select name, SUBSTRING(name,1,CHARINDEX(',',name)-1)as lastName,PassengerId,SibSp,ParCh from train where Age < 18;

CREATE VIEW married_children_names as
select SUBSTRING(name,CHARINDEX('.',name)+1,CHARINDEX(' ',name,CHARINDEX('(',name)-1) - CHARINDEX('.',name))
as first_name,PassengerId,SibSp,ParCh from train where CHARINDEX('(',name) !=0 AND age <18;

CREATE VIEW not_married_children_names as
select SUBSTRING(name,CHARINDEX('.',name)+1,len(name) - CHARINDEX('.',name))
as first_name,PassengerId,SibSp,ParCh from train where CHARINDEX('(',name) =0 AND age < 18;

Create view all_children_first_names as
select * from married_children_names
UNION
select * from not_married_children_names;

Create view children as
select l_n.Name,l_n.lastName,f_n.first_name,l_n.SibSp,l_n.ParCh
from
all_children_first_names  f_n
join
children_last_names l_n
on f_n.PassengerId = l_n.PassengerId;

select * from children;
```

	Name	lastName	first_name	SibSp	ParCh
1	Palsson, Master. Gosta Leonard	Palsson	Gosta Leonard	3	1
2	Nasser, Mrs. Nicholas (Adele Achem)	Nasser	Nicholas	1	0
3	Sandstrom, Miss. Marguerite Rut	Sandstrom	Marguerite Rut	1	1
4	Vestrom, Miss. Hulda Amanda Adolfina	Vestrom	Hulda Amanda Adolfina	0	0
5	Rice, Master. Eugene	Rice	Eugene	4	1
6	McGowan, Miss. Anna "Annie"	McGowan	Anna "Annie"	0	0
7	Palsson, Miss. Torborg Danira	Palsson	Torborg Danira	3	1
8	Nicola-Yarred, Miss. Jamila	Nicola-Yarred	Jamila	1	0
9	Laroche, Miss. Simonne Marie Anne Andree	Laroche	Simonne Marie Anne Andree	1	2
10	Panula, Master. Juha Niilo	Panula	Juha Niilo	4	1
11	West, Miss. Constance Mirium	West	Constance Mirium	1	2
12	Goodwin, Master. William Frederick	Goodwin	William Frederick	5	2
13	Skoog, Master. Harald	Skoog	Harald	3	2
14	Andersson, Miss. Erna Alexandra	Andersson	Erna Alexandra	4	2
15	Goodwin, Miss. Lillian Amy	Goodwin	Lillian Amy	5	2
16	Caldwell, Master. Alden Gates	Caldwell	Alden Gates	0	2
17	Ilett, Miss. Bertha	Ilett	Bertha	0	0
18	Ford, Mr. William Neal	Ford	William Neal	1	3
19	Zabour, Miss. Hileni	Zabour	Hileni	1	0
20	Attalah, Miss. Malake	Attalah	Malake	0	0
21	Andersson, Miss. Ellis Anna Maria	Andersson	Ellis Anna Maria	4	2
22	Nicola-Yarred, Master. Elias	Nicola-Yarred	Elias	1	0
23	Osen, Mr. Olaf Elon	Osen	Olaf Elon	0	0
24	Ford, Miss. Robina Maggie "Ruby"	Ford	Robina Maggie "Ruby"	2	2
25	Gilnagh, Miss. Katherine "Katie"	Gilnagh	Katherine "Katie"	0	0
26	Calic, Mr. Jovo	Calic	Jovo	0	0
27	Panula, Master. Eino Viljami	Panula	Eino Viljami	4	1
28	Goldsmith, Master. Frank John William "Fr...	Goldsmith	Frank John William "Frankie"	0	2
29	Rice, Master. Arthur	Rice	Arthur	4	1
30	Johnson, Miss. Eleanor Ileen	Johnson	Eleanor Ileen	1	1
31	Asplund, Master. Clarence Gustaf Hugo	Asplund	Clarence Gustaf Hugo	4	2
32	Becker, Master. Richard F	Becker	Richard F	2	1
33	Kink-Heilmann, Miss. Luise Gretchen	Kink-Heilm...	Luise Gretchen	0	2
34	Navratil, Master. Michel M	Navratil	Michel M	1	1
35	Strom, Miss. Telma Matilda	Strom	Telma Matilda	0	1

→

	Name	lastName	first_name	SibSp	ParCh
80	Baclini, Miss. Eugenie	Baclini	Eugenie	2	1
81	Goodwin, Mr. Charles Edward	Goodwin	Charles Edward	5	2
82	Panula, Mr. Jaako Arnold	Panula	Jaako Arnold	4	1
83	Madill, Miss. Georgette Alexandra	Madill	Georgette Alexandra	0	1
84	Karun, Miss. Manca	Karun	Manca	0	1
85	Harper, Miss. Annie Jessie "Nina"	Harper	Annie Jessie "Nina"	0	1
86	Jensen, Mr. Svend Lauritz	Jensen	Svend Lauritz	1	0
87	Hassan, Mr. Houssein G N	Hassan	Houssein G N	0	0
88	Abbott, Mr. Rossmore Edward	Abbott	Rossmore Edward	1	1
89	Wells, Miss. Joan	Wells	Joan	1	1
90	Moor, Master. Meier	Moor	Meier	0	1
91	Hamalainen, Master. Viljo	Hamalainen	Viljo	1	1
92	Eklund, Mr. Hans Linus	Eklund	Hans Linus	0	0
93	Emanuel, Miss. Virginia Ethel	Emanuel	Virginia Ethel	0	0
94	Ayoub, Miss. Banoura	Ayoub	Banoura	0	0
95	Dick, Mrs. Albert Adrian (Vera Gillespie)	Dick	Albert Adrian	1	0
96	Rice, Master. George Hugh	Rice	George Hugh	4	1
97	Dean, Master. Bertram Vere	Dean	Bertram Vere	1	2
98	Gaskell, Mr. Alfred	Gaskell	Alfred	0	0
99	Carter, Master. William Thornton II	Carter	William Thornton II	1	2
100	Thomas, Master. Assad Alexander	Thomas	Assad Alexander	0	1
101	Andersson, Miss. Ebba Iris Alfrida	Andersson	Ebba Iris Alfrida	4	2
102	Skoog, Master. Karl Thorsten	Skoog	Karl Thorsten	3	2
103	Panula, Master. Urho Abraham	Panula	Urho Abraham	4	1
104	Mallet, Master. Andre	Mallet	Andre	0	2
105	Yasbeck, Mrs. Antoni (Selini Alexander)	Yasbeck	Antoni	1	0
106	Richards, Master. George Sibley	Richards	George Sibley	1	1
107	Mudd, Mr. Thomas Charles	Mudd	Thomas Charles	0	0
108	Culumovic, Mr. Jeso	Culumovic	Jeso	0	0
109	Andersson, Master. Sigvard Harald Elias	Andersson	Sigvard Harald Elias	4	2
110	Boulos, Miss. Nourelain	Boulos	Nourelain	1	1
111	Lines, Miss. Mary Conover	Lines	Mary Conover	0	1
112	Johnson, Master. Harold Theodor	Johnson	Harold Theodor	1	1
113	Najib, Miss. Adele Kiamie "Jane"	Najib	Adele Kiamie "Jane"	0	0

Part for the Parents view:

```sql
Create view parents_last_names as
select name, SUBSTRING(name,1,CHARINDEX(',',name)-1)as lastName,PassengerId,SibSp,ParCh from train where Age >= 18;

CREATE VIEW married_parrents_names as
select SUBSTRING(name,CHARINDEX('.',name)+1,CHARINDEX(' ',name,CHARINDEX('(',name)-1) - CHARINDEX('.',name))
as first_name,PassengerId,SibSp,ParCh from train where CHARINDEX('(',name) !=0 AND age >=18;

CREATE VIEW not_married_parents_names as
select SUBSTRING(name,CHARINDEX('.',name)+1,len(name) - CHARINDEX('.',name))
as first_name,PassengerId,SibSp,ParCh from train where CHARINDEX('(',name) =0 AND age >= 18;

Create view all_parents_first_names as
select * from married_parrents_names
UNION
select * from not_married_parents_names;

Create view parents as
select l_n.Name,l_n.lastName,f_n.first_name,l_n.SibSp,l_n.ParCh
from
all_parents_first_names  f_n
join
parents_last_names l_n
on f_n.PassengerId = l_n.PassengerId;

select * from parents;
```

	Name	lastName	first_name	SibSp	ParCh
1	Braund, Mr. Owen Harris	Braund	Owen Harris	1	0
2	Cumings, Mrs. John Bradley (Florence Briggs Thayer)	Cumings	John Bradley	1	0
3	Heikkinen, Miss. Laina	Heikkinen	Laina	0	0
4	Futrelle, Mrs. Jacques Heath (Lily May Peel)	Futrelle	Jacques Heath	1	0
5	Allen, Mr. William Henry	Allen	William Henry	0	0
6	McCarthy, Mr. Timothy J	McCarthy	Timothy J	0	0
7	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	Johnson	Oscar W	0	2
8	Bonnell, Miss. Elizabeth	Bonnell	Elizabeth	0	0
9	Saundercock, Mr. William Henry	Saundercock	William Henry	0	0
10	Andersson, Mr. Anders Johan	Andersson	Anders Johan	1	5
11	Hewlett, Mrs. (Mary D Kingcome)	Hewlett		0	0
12	Vander Planke, Mrs. Julius (Emelia Maria Vandemo...	Vander Planke	Julius	1	0
13	Fynney, Mr. Joseph J	Fynney	Joseph J	0	0
14	Beesley, Mr. Lawrence	Beesley	Lawrence	0	0
15	Sloper, Mr. William Thompson	Sloper	William Thompson	0	0
16	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Joh...	Asplund	Carl Oscar	1	5
17	Fortune, Mr. Charles Alexander	Fortune	Charles Alexander	3	2
18	Uruchurtu, Don. Manuel E	Uruchurtu	Manuel E	0	0
19	Wheadon, Mr. Edward H	Wheadon	Edward H	0	0
20	Meyer, Mr. Edgar Joseph	Meyer	Edgar Joseph	1	0
21	Holverson, Mr. Alexander Oskar	Holverson	Alexander Oskar	1	0
22	Cann, Mr. Ernest Charles	Cann	Ernest Charles	0	0
23	Vander Planke, Miss. Augusta Maria	Vander Planke	Augusta Maria	2	0
24	Ahlin, Mrs. Johan (Johanna Persdotter Larsson)	Ahlin	Johan	1	0
25	Turpin, Mrs. William John Robert (Dorothy Ann Won...	Turpin	William John Robert	1	0
26	Devaney, Miss. Margaret Delia	Devaney	Margaret Delia	0	0
27	Arnold-Franchi, Mrs. Josef (Josefine Franchi)	Arnold-Franchi	Josef	1	0
28	Nosworthy, Mr. Richard Cater	Nosworthy	Richard Cater	0	0
29	Harper, Mrs. Henry Sleeper (Myna Haxtun)	Harper	Henry Sleeper	1	0
30	Faunthorpe, Mrs. Lizzie (Elizabeth Anne Wilkinson)	Faunthorpe	Lizzie	1	0
31	Ostby, Mr. Engelhart Cornelius	Ostby	Engelhart Cornelius	0	1
32	Rugg, Miss. Emily	Rugg	Emily	0	0
33	Novel, Mr. Mansouer	Novel	Mansouer	0	0
34	Sirayanian, Mr. Orsen	Sirayanian	Orsen	0	0

	Name	lastName	first_name	SibSp	ParCh
568	Abbing, Mr. Anthony	Abbing	Anthony	0	0
569	Markoff, Mr. Marin	Markoff	Marin	0	0
570	Harper, Rev. John	Harper	John	0	1
571	Svensson, Mr. Johan	Svensson	Johan	0	0
572	Carter, Mrs. Ernest Courtenay (Lilian Hughes)	Carter	Ernest Courtenay	1	0
573	Aks, Mrs. Sam (Leah Rosen)	Aks	Sam	0	1
574	Wick, Mrs. George Dennick (Mary Hitchcock)	Wick	George Dennick	1	1
575	Daly, Mr. Peter Denis	Daly	Peter Denis	0	0
576	Baclini, Mrs. Solomon (Latifa Qurban)	Baclini	Solomon	0	3
577	Hansen, Mr. Claus Peter	Hansen	Claus Peter	2	0
578	Giles, Mr. Frederick Edward	Giles	Frederick Edward	1	0
579	Swift, Mrs. Frederick Joel (Margaret Welles Barron)	Swift	Frederick Joel	0	0
580	Gill, Mr. John William	Gill	John William	0	0
581	Bystrom, Mrs. (Karolina)	Bystrom		0	0
582	Duran y More, Miss. Asuncion	Duran y More	Asuncion	1	0
583	Roebling, Mr. Washington Augustus II	Roebling	Washington Augus...	0	0
584	Balkic, Mr. Cerin	Balkic	Cerin	0	0
585	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	Beckwith	Richard Leonard	1	1
586	Carlsson, Mr. Frans Olof	Carlsson	Frans Olof	0	0
587	Vander Cruyssen, Mr. Victor	Vander Cruys...	Victor	0	0
588	Abelson, Mrs. Samuel (Hannah Wizosky)	Abelson	Samuel	1	0
589	Gustafsson, Mr. Alfred Ossian	Gustafsson	Alfred Ossian	0	0
590	Petroff, Mr. Nedelio	Petroff	Nedelio	0	0
591	Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)	Potter	Thomas Jr	0	1
592	Shelley, Mrs. William (Imanita Parrish Hall)	Shelley	William	0	1
593	Markun, Mr. Johann	Markun	Johann	0	0
594	Dahlberg, Miss. Gerda Ulrika	Dahlberg	Gerda Ulrika	0	0
595	Banfield, Mr. Frederick James	Banfield	Frederick James	0	0
596	Sutehall, Mr. Henry Jr	Sutehall	Henry Jr	0	0
597	Rice, Mrs. William (Margaret Norton)	Rice	William	0	5
598	Montvila, Rev. Juozas	Montvila	Juozas	0	0
599	Graham, Miss. Margaret Edith	Graham	Margaret Edith	0	0
600	Behr, Mr. Karl Howell	Behr	Karl Howell	0	0
601	Dooley, Mr. Patrick	Dooley	Patrick	0	0

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

```sql
select lastName,first_name from children where ParCh = 0;
```

	lastName	first_name
1	Nasser	Nicholas
2	Vestrom	Hulda Amanda Adolfina
3	McGowan	Anna "Annie"
4	Nicola-Yarred	Jamila
5	Ilett	Bertha
6	Zabour	Hileni
7	Attalah	Malake
8	Nicola-Yarred	Elias
9	Osen	Olaf Elon
10	Gilnagh	Katherine "Katie"
11	Calic	Jovo
12	Carr	Helen "Ellen"
13	Sunderland	Victor Francis
14	de Pelsmaeker	Alfons
15	Penasco y Castellana	Victor de Satode
16	Vander Planke	Leo Edmondus
17	Lehmann	Bertha
18	Kallio	Nikolai Erland
19	Calic	Petar
20	Maioni	Roberta
21	Rush	Alfred George John
22	Jensen	Svend Lauritz
23	Hassan	Houssein G N
24	Eklund	Hans Linus
25	Emanuel	Virginia Ethel
26	Ayoub	Banoura
27	Dick	Albert Adrian
28	Gaskell	Alfred
29	Yasbeck	Antoni
30	Mudd	Thomas Charles
31	Culumovic	Jeso
32	Najib	Adele Kiamie "Jane"

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

```
select lastName,first_name,ParCh from children where ParCh > 0 ;
```

	lastName	first_name	ParCh
1	Panula	Urho Abraham	1
2	Mallet	Andre	2
3	Richards	George Sibley	1
4	Andersson	Sigvard Harald Elias	2
5	Boulos	Nourelain	1
6	Lines	Mary Conover	1
7	Johnson	Harold Theodor	1
8	Palsson	Gosta Leonard	1
9	Sandstrom	Marguerite Rut	1
10	Rice	Eugene	1
11	Palsson	Torborg Danira	1
12	Laroche	Simonne Marie Anne Andree	2
13	Panula	Juha Niilo	1
14	West	Constance Mirium	2
15	Goodwin	William Frederick	2
16	Skoog	Harald	2
17	Andersson	Erna Alexandra	2
18	Goodwin	Lillian Amy	2
19	Caldwell	Alden Gates	2
20	Ford	William Neal	3
21	Andersson	Ellis Anna Maria	2
22	Ford	Robina Maggie "Ruby"	2
23	Panula	Eino Viljami	1
24	Goldsmith	Frank John William "Frankie"	2
25	Rice	Arthur	1
26	Johnson	Eleanor Ileen	1
27	Asplund	Clarence Gustaf Hugo	2
28	Becker	Richard F	1
29	Kink-Heil...	Luise Gretchen	2
30	Navratil	Michel M	1
31	Strom	Telma Matilda	1
32	Asplund	Lillian Gertrud	2
33	Collyer	Marjorie "Lottie"	2
34	Asplund	Edvin Rojj Felix	2

→

	lastName	first_name	ParCh
50	Mellinger	Madeleine Violet	1
51	Baclini	Marie Catherine	1
52	Baclini	Helene Barbara	1
53	Hirvonen	Hildur E	1
54	Goodwin	Harold Victor	2
55	Coutts	Eden Leslie "Neville"	1
56	Quick	Phyllis May	1
57	Elias	Joseph Jr	1
58	Hart	Eva Miriam	2
59	Andersson	Ingeborg Constanzia	2
60	Andersson	Sigrid Elisabeth	2
61	Davies	John Morgan Jr	1
62	Thayer	John Borland Jr	2
63	Becker	Marion Louise	1
64	Skoog	Mabel	2
65	Skoog	Margit Elizabeth	2
66	Baclini	Eugenie	1
67	Goodwin	Charles Edward	2
68	Panula	Jaako Arnold	1
69	Madill	Georgette Alexandra	1
70	Karun	Manca	1
71	Harper	Annie Jessie "Nina"	1
72	Abbott	Rossmore Edward	1
73	Wells	Joan	1
74	Moor	Meier	1
75	Hamalai...	Viljo	1
76	Rice	George Hugh	1
77	Dean	Bertram Vere	2
78	Carter	William Thornton II	2
79	Thomas	Assad Alexander	1
80	Andersson	Ebba Iris Alfrida	2
81	Skoog	Karl Thorsten	2

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

```sql
select lastName,first_name from parents where SibSp = 0 and ParCh>0;
```

	lastName	first_name
1	Harper	John
2	Aks	Sam
3	Baclini	Solomon
4	Potter	Thomas Jr
5	Shelley	William
6	Rice	William
7	Johnson	Oscar W
8	Ostby	Engelhart Cornelius
9	Greenfield	William Bertram
10	Doling	John T
11	White	Richard Frasar
12	Baxter	Quigg Edmond
13	White	Percival Wayland
14	Newsom	Helen Monypeny
15	Navratil	Michel
16	van Billia...	Austin Blyler
17	Williams	Charles Duane
18	Cribb	John Hatfield
19	Olsen	Karl Siegwart And...
20	Hamalai...	William
21	Rosblom	Viktor
22	Touma	Darwis
23	Parrish	
24	Graham	William Thompson
25	Mellinger	
26	Natsch	Charles H
27	Baxter	James
28	Wick	Mary Natalie
29	Graham	George Edward
30	Bowerm...	Elsie Edith
31	Barbara	
32	Widener	Harry Elkins
33	Sandstro...	Hjalmar
34	Silven	Lyyli Karoliina

→

	lastName	first_name
14	Newsom	Helen Monypeny
15	Navratil	Michel
16	van Billia...	Austin Blyler
17	Williams	Charles Duane
18	Cribb	John Hatfield
19	Olsen	Karl Siegwart And...
20	Hamalai...	William
21	Rosblom	Viktor
22	Touma	Darwis
23	Parrish	
24	Graham	William Thompson
25	Mellinger	
26	Natsch	Charles H
27	Baxter	James
28	Wick	Mary Natalie
29	Graham	George Edward
30	Bowerm...	Elsie Edith
31	Barbara	
32	Widener	Harry Elkins
33	Sandstro...	Hjalmar
34	Silven	Lyyli Karoliina
35	Quick	Frederick Charles
36	Hippach	Louis Albert
37	Frolicher	Hedwig Margaritha
38	Crosby	Harriet R
39	Palsson	Nils
40	Taussig	Ruth
41	Panula	Juha
42	Doling	Elsie
43	Newell	Arthur Webster
44	Cardeza	Thomas Drake M...
45	Barbara	Saiide
46	Robert	Edward Scott
47	Moor	

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

```sql
select lastName,first_name from parents where SibSp >=1 and ParCh > 0;
```

	lastName	first_name
1	Compton	Sara Rebecca
2	Wick	George Dennick
3	Beckwith	Richard Leonard
4	Andersson	Anders Johan
5	Asplund	Carl Oscar
6	Fortune	Charles Alexander
7	Fortune	Mabel Helen
8	Dean	Bertram Frank
9	Nicholls	Joseph Charles
10	Skoog	William
11	Klasen	Klas Albin
12	Bourke	John
13	Beckwith	Richard Leonard
14	Strom	Wilhelm
15	Taussig	Emil
16	Abbott	Stanton
17	Ryerson	Emily Borie
18	Lahtinen	William
19	Hart	Benjamin
20	Spedden	Frederic Oakley
21	Caldwell	Albert Francis
22	Goldsmith	Frank John
23	Fortune	Alice Elizabeth
24	Skoog	Wilhelm
25	Carter	William Ernest
26	Drew	James Vivian
27	Danbom	Ernst Gilbert
28	Rosblom	Viktor Richard
29	Ford	Doolina Margar...
30	Richards	Sidney
31	Fortune	Mark
32	Hart	Benjamin

→

	lastName	first_name
35	Allison	Hudson J C
36	Hocking	Richard George
37	Goldsmith	Frank John
38	Taussig	Emil
39	Christy	Julie Rachel
40	Thayer	John Borland
41	Frolicher...	Maxmillian
42	Van Impe	Jean Baptiste
43	Jacobsohn	Sidney Samuel
44	Laroche	Joseph
45	Andersson	Anders Johan
46	Herman	Alice
47	Danbom	Ernst Gilbert
48	Nakid	Sahid
49	Collyer	Harvey
50	Bourke	John
51	Brown	Thomas William ...
52	Goodwin	Frederick
53	Brown	Thomas William ...
54	Laroche	Joseph Philippe ...
55	Thayer	John Borland
56	Ford	Edward
57	Ryerson	Susan Parker "S...
58	Crosby	Edward Gifford
59	Herman	Samuel
60	Carter	William Ernest
61	Hocking	Elizabeth
62	Van Impe	Jean Baptiste
63	Collyer	Harvey
64	Mallet	Albert
65	Hays	Charles Melville

13) Own query: Write a query to display the first_names(can be together with short_names because can organize first name if not in brackets), short_names, last_names of the victims' full names with the ages from 10 to 35 and they must be females. Short names are said to be names in form "Name". For example, "Daisy". Use views if it is necessary with joins or unions and so on.

```sql
Create view without_first_name as
select name,
SUBSTRING(name,Charindex('"',name)+1,CHARINDEX('"',name,CHARINDEX('"',name)+1) - CHARINDEX('"',name)-1) as short_name,
SUBSTRING(name,1,CHARINDEX(',',name)-1)as lastName,PassengerId, age, Gender,Survived
from train  where CHARINDEX('"',name) !=0 AND (Age >= 10 AND Age <=35) AND Gender like 'female' AND Survived = 0;

Create view cond1 as
select SUBSTRING(name,CHARINDEX('.',name)+1,CHARINDEX(' ',name,CHARINDEX('(',name)-1) - CHARINDEX('.',name))
as first_name,PassengerId,age,Gender,Survived from train where CHARINDEX('(',name) !=0 AND age >=10 AND age <=35 AND Gender like 'female' AND Survived = 0 and CHARINDEX('"',name) !=0;

Create view cond2 as
select SUBSTRING(name,CHARINDEX('.',name)+1,len(name) - CHARINDEX('.',name))
as first_name,PassengerId,age,Gender,Survived from train where CHARINDEX('(',name) =0 AND age >= 10 AND age <=35 AND Gender like 'female' AND Survived = 0 and CHARINDEX('"',name) !=0;

Create view first_names_total as
select * from cond1
UNION
select * from cond2;

Create view last_exercise as
select f_n_t.first_name,w_f_n.lastName,w_f_n.short_name,w_f_n.Age,w_f_n.Gender,w_f_n.Survived from
first_names_total f_n_t
join
without_first_name w_f_n
on f_n_t.PassengerId = w_f_n.PassengerId;

select * from last_exercise;
```

	first_name	lastName	short_name	Age	Gender	Survived
1	Henriette	Yrois	Mrs Harbeck	24	female	0
2	Doolina Margaret "Daisy"	Ford	Daisy	21	female	0
3	Hanora "Nora"	Hegarty	Nora	18	female	0