








```
1
2
3
4
5
6 # use the dataset
7
8 • use titanic;
9
10 -- use : The use keyword is used to set the data base as primary, in which you are going to work on.
```

```

4
5
6 # show the record of table
7
8 • select * from tbl_titanic;
9
10 -- Seelct : The Select is a DQL(Data Query Language) commange that helpd us to fetch the record form table.
11 -- * : The * symbol is used to fetch all (columns) record of the database.
12

```

Result Grid												
Filter Rows: <input type="text"/>												
Edit:   												
Export/Import:  												
Wrap Cell Content: 												
Fetch rows: 												
	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
▶	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	A/5 21171	7.25		S
	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38	1	0	PC 17599	71.2833	C85	C
	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	STON/O2. 3101282	7.925		S
	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53.1	C123	S
	5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	8.05		S
	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51.8625	E46	S
	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21.075		S
	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11.1333		S
	10	1	3	Nasser, Mrs. Nicholas (Adela Asher)	female	14	1	0	237736	20.0725		C

tbl_titanic 1 x

```
6      # Show the column List of Table
```

```
7
```

```
8 •     SHOW COLUMNS FROM tbl_titanic;
```

```
9
```

```
10      -- here we are using The Show Column to get the list of complete details of column of Tables
```

```
11
```

<

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
	PassengerId	int	NO	PRI	NULL	
	Survived	int	NO		NULL	
	Pclass	int	YES		NULL	
	Name	text	YES		NULL	
	Sex	text	YES		NULL	
	Age	int	YES		NULL	
▶	SibSp	int	YES		NULL	
	Parch	int	YES		NULL	
	Ticket	text	YES		NULL	
	Fare	double	YES		NULL	
	Cabin	text	YES		NULL	
	Embarked	text	YES		NULL	

```
-
2  # Set the Passenger ID as Primary Key
3
4  • alter table tbl_titanic
5  add constraint primary key(PassengerId);
6
7  -- Here We have used Alter Statement :
8  -- Alter key is used to modify the definition of table
9  -- here we are adding constraints , It is rule, we are setting the rule on PassengerId as Primary Key
10
```

4 # show first 10 record of table

5

6 • select * from tbl_titanic limit 10;

7

Result Grid   Filter Rows: | Edit:    | Export/Import:   | Wrap Cell Content:  | Fetch rows: 

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
▶	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	A/5 21171	7.25		S
	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38	1	0	PC 17599	71.2833	C85	C
	3	1	3	Heikinen, Miss. Laina	female	26	0	0	STON/O2. 3101282	7.925		S
	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53.1	C123	S
	5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	8.05		S
	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51.8625	E46	S
	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21.075		S
	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11.1333		S
	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30.0708		C
	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	16.7	G6	S
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

tbl_titanic 5 ×

```
1  
2 # Find the No of passenger who survived?  
3  
4 • select count(*) as "pasenger_Survived" from tbl_titanic where survived = 1;  
5  
6 -- Count() : The Count() is a aggregate Method that returns the total No of Record in the Table/Coumn .  
7 -- Where : The where Keyword is used to filter the data based on the specified condition  
8  
9
```

< Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	pasenger_Survived
--	-------------------

▶	290
---	-----

```
1
2   # Find the Average Age of passenger ?
3
4   select avg(Age) from tbl_titanic;
5
6   -- AVG() : The AVG() is a aggregate Method that returns the Average of value .
7
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

avg(Age)



29.7129



Limit to 400 rows

```
1
2  # Find the passenger in each Class ?
3
4  select Pclass, count(*) Total_Passenger from tbl_titanic
5  group by Pclass
6  order by Total_Passenger DESC;
7
8  -- group by() : The group by is clause, that groups the similar data / value.
9  -- Order by() : The order by is clause, sort the data / value in ASC(Low to High) or DESC( Hight to Low).
10
```

<

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	Pclass	Total_Passenger
▶	3	355
	1	186
	2	173



```
1
2 # Find the First 10 record of the dataset sorted by passenger class in highest to lowest ?
3
4 select * from tbl_titanic
5 order by Pclass DESC
6 limit 10;
7
8 -- Order by() : The order by is clause, sort the data / value in ASC(Low to High) or DESC( Hight to Low).
9 -- limit : The Limit keyword is use to show selected No. of record form table.
10
```

<

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: Fetch rows:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
▶	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	A/5 21171	7.25		S
	443	0	3	Petterson, Mr. Johan Emil	male	25	1	0	347076	7.775		S
	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	STON/O2. 3101282	7.925		S
	891	0	3	Dooley, Mr. Patrick	male	32	0	0	370376	7.75		Q
	5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	8.05		S
	785	0	3	Ali, Mr. William	male	25	0	0	SOTON/O.Q. 3101312	7.05		S
	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21.075		S
	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11.1333		S
	449	1	3	Badini, Miss. Marie Catherine	female	5	2	1	2666	19.2583		C
	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	16.7	G6	S
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

tbl_titanic 10 ▾



```
1
2 # Find the No of passenger in each class sorted by class in ascending order?
3 • select count(*) Total_Passenger, PClass from tbl_titanic
4 Group by PClass
5 order by Pclass ASC;
6
7 -- Order by() : The order by is clause, sort the data / value in ASC(Low to High) or DESC( Hight to Low).
8 -- Group By : The Group by clause is sued to grouping the similar value/data
9
10
```



Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Total_Passenger	PClass
▶	186	1
	173	2
	355	3



```
1
2 # Find the Average Fare paid by passenger in each class ?
3
4 • select avg(fare) Avg_Fare, PClass from tbl_titanic
5    Group by PClass
6    order by Pclass ASC;
7
8 -- Order by() : The order by is clause, sort the data / value in ASC(Low to High) or DESC( Hight to Low).
9 -- Group By : The Group by clause is sued to grouping the similar value/data
10
```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Avg_Fare	PClass
▶	87.96158225806447	1
	21.47155606936416	2
	13.229435211267623	3

```
1
2  # Find the Passenger Name who paid the Highest Fare ?
3
4  select Name, Fare from tbl_titanic
5  where fare = (
6      select Max(fare) Highest_fare from tbl_titanic
7  );
8
9  -- Here we are using here the the Query inside the Query, That is called the Subquery
10 -- The outer Query result is depend on the inner Query
11 -- Here we are finding the max/ highest fare from the table, then we we extracting thr result on the basis on MAX fare
12
13
```

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	Name	Fare
▶	Ward, Miss. Anna	512.3292
	Cardeza, Mr. Thomas Drake Martinez	512.3292
	Lesurer, Mr. Gustave J	512.3292

```

3  # Find the Passenger who had Highest Age Among the survivors ?
4
5  • select Name, Age as Highest_Age from tbl_titanic
6  where age = (
7      select Max(age) from tbl_titanic where survived = 1
8  )
9  and survived = 1;
10
11  -- Here we are using here the the Query inside the Query, That is called the Subquery
12  -- The outer Query result is depend on the inner Query
13  -- Here we are finding the max/ highest AGE from the table, then we we extracting thr result on the basis on MAX AGE
14

```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	Name	Highest_Age
▶	Barkworth, Mr. Algernon Henry Wilson	80

4 # Find the No of Passenger who paid more than agerage fare ?

5

6 • select Count(*)

7 from tbl_titanic

8 where fare > (

9 select avg(fare) from tbl_titanic

10);

11

12 -- Here we are using here the the Query inside the Query, That is called the Subquery

13 -- The outer Query result is depend on the inner Query

14 -- Here we are finding the Avg/ mean Fare from the table, then we we extracting the Total Count where Fare is grather that Avg Fare.

15

<

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	Count(*)
▶	172

```

1
2 # Find the Name of Passenger who had the most parents or child on board more than average fare ?
3
4 • select Name, Parch
5 from tbl_titanic
6 where Parch = (
7     select Max(parch) from tbl_titanic
8 );
9 -- Here we are using here the the Query inside the Query, That is called the Subquery
10 -- The outer Query result is depend on the inner Query
11 -- Here we are finding the MAX/ highest Parch from the table, then we we extracting the result of that passenger who has Maxium no of child.
12

```

<

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	Name	Parch
▶	Goodwin, Mrs. Frederick (Augusta Tyler)	6



```
1
2  # Find the Number of male & Female Passenger who survived , and order the result by gender in Low to high?
3
4  select sex, count(*) as Total_Passenger
5  from tbl_titanic
6  where survived =1
7  group by sex Order by sex asc;
8
9  -- Here we are Grouping the Sex/Gender with Group By Clause to find Gener wise total No of Passenger of Survival=1 and sorting them by Sex.
10
```

<

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	sex	Total_Passenger
▶	female	197
	male	93



Limit to 400 rows



```
1
2  # Find the Number of male & Female Passenger who survived , and order the result by gender in Low to high?
3  • select name, age, fare from tbl_titanic
4  where age= (
5      select max(age) from tbl_titanic
6  )
7  and survived = 1 ;
8
9  -- Here we are Grouping the Sex/Gender with Group By Clause to find Gener wise total No of Passenger of Survival=1 and sorting them by Sex.
10
11
```

<

Result Grid



 Filter Rows:

Export: 

Wrap Cell Content: 

	name	age	fare
▶	Barkworth, Mr. Algernon Henry Wilson	80	30

```

1
2  # Find the name & age  of youngest Female Passenger  who survived in third class?
3  select name, Age  from tbl_titanic
4  where sex = 'female'
5  and Pclass =3
6  and survived = 1 and
7  age = (
8      select min(age) from tbl_titanic
9      where sex = 'female'
10     and Pclass =3
11     and survived = 1
12     );
13  -- Here we are using SubQuery to find the the Min Age of Female passenger who has survived and
14  -- then we are fetchthing the result on SubQuery to extract the Name , AGE of Female Passenger.
15

```


 Filter Rows:
 Export: 
 Wrap Cell Content: 

	name	age	fare
▶	Barkworth, Mr. Algernon Henry Wilson	80	30

```
1
2 # Select All passenger who traveled in Cabin that was not shared by other Passenger?
3
4 • Select * from tbl_titanic
5 where cabin not in
6 (
7     select cabin from tbl_titanic
8     group by Cabin
9     having count(*) > 1
10 );
11
12 -- Here on the basis of SubQuery we are extracting in the Main Query where Cabin is not shared with other Passenger with NOT IN o
13
```

Result Grid

Filter Rows:

Edit:   

Export/Import:  

Wrap Cell Content: 

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
▶	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38	1	0	PC 17599	71.2833	C85	C
	7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51.8625	E46	S
	12	1	1	Bonnell, Miss. Elizabeth	female	58	0	0	113783	26.55	C103	S
	22	1	2	Beesley, Mr. Lawrence	male	34	0	0	248698	13	D56	S
	24	1	1	Sloper, Mr. William Thompson	male	28	0	0	113788	35.5	A6	S
	55	0	1	Ostby, Mr. Engelhart Cornelius	male	65	0	1	113509	61.9792	B30	C
	93	0	1	Chaffee, Mr. Herbert Fuller	male	46	1	0	W.E.P. 5734	61.175	E31	S
	97	0	1	Goldschmidt, Mr. George B	male	71	0	0	PC 17754	34.6542	A5	C
	98	1	1	Greenfield, Mr. William Bertram	male	23	0	1	PC 17759	63.3583	D10 D12	C
	111	0	1	Porter, Mr. Walter Chamberlain	male	47	0	0	110465	52	C110	S
	137	1	1	Newsom, Miss. Helen Monypeny	female	19	0	2	11752	26.2833	D47	S
	140	0	1	Giles, Mr. Victor	male	34	0	0	PC 17502	70.2	B96	C



```
1
2 # Show the List of top 3 Passenger by gender who paid the maximum fare
3
4 • select Distinct Fare, Sex, D_rnk_Fare from (
5     select Sex, fare,
6     dense_rank()
7     Over(partition by Sex order by fare desc) as D_rnk_Fare
8     from tbl_titanic ) t
9 where t.D_rnk_Fare <=3;
10
11 -- Here we are using the Window Function to find the Top 3 Passenger in Each Gender/Sex
12 -- We have used Dense_rank() : The Dense_rank() give the The Unique ranking to each Unique Value.
13 -- We user Over() clause for Partitioned By Sex to assigne the Unique Rankin to each gender
14 -- We Used Order By : The Order By Claused is usde to sort the Data in ACS/Desc to sort High to Low or Low To High
15
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Fare	Sex	D_rnk_Fare
▶	512.3292	female	1
	263	female	2
	262.375	female	3
	512.3292	male	1
	263	male	2
	247.5208	male	3

```
1
2
3
4
5 # Create the database
6
7 • Create database titanic ;
8
9 -- Create is a DDL(Data Defination Language) command , that help us to create a structure in RDMBS.
```