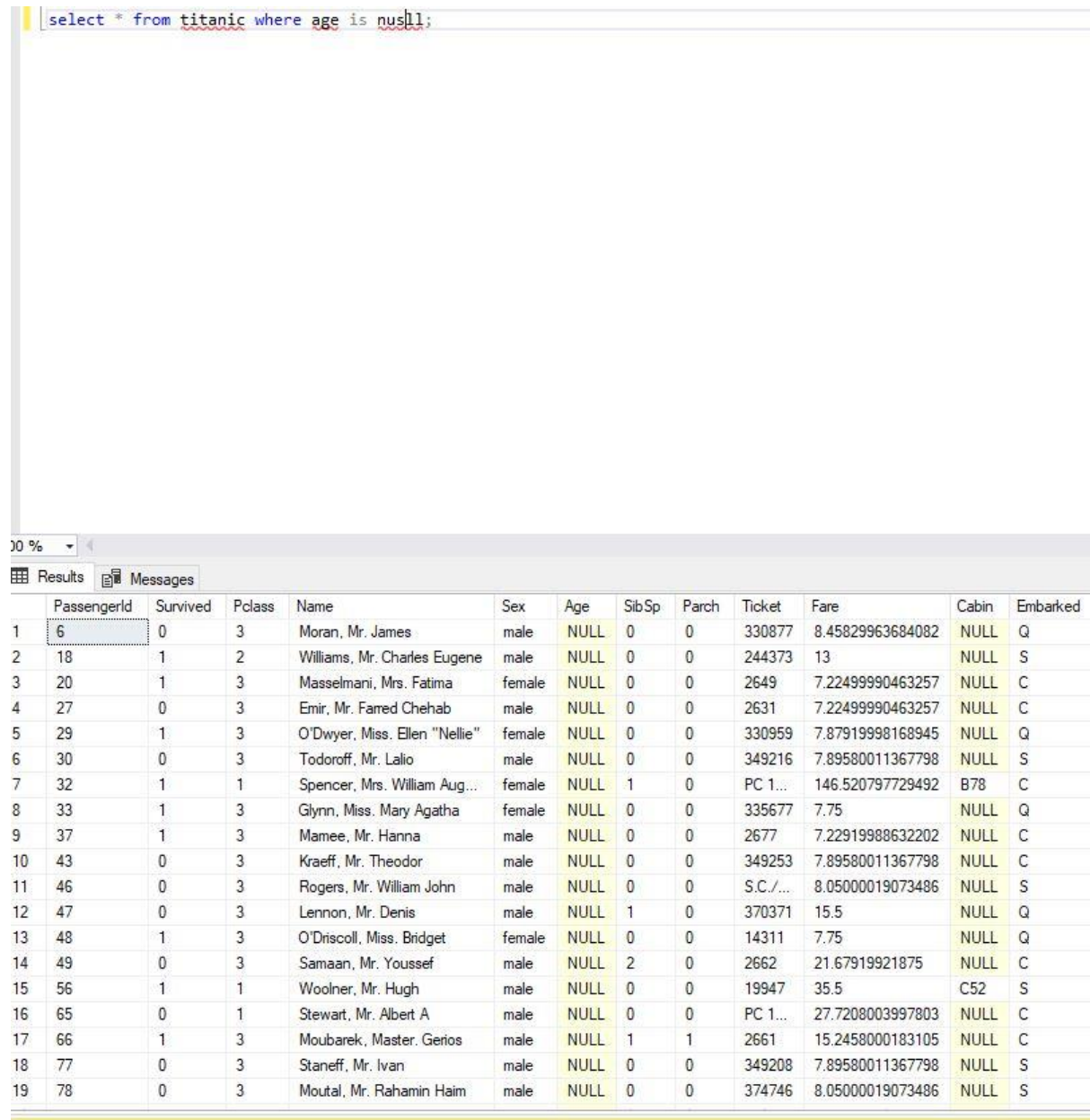


# Sachin Gupta Surprise Test Titanic Assignment

1. Filter out the details of those passengers whose age is not known. (Hint: NULL)

Ans) `select * from titanic where age is null;`



```
select * from titanic where age is null;
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	6	0	3	Moran, Mr. James	male	NULL	0	0	330877	8.45829963684082	NULL	Q
2	18	1	2	Williams, Mr. Charles Eugene	male	NULL	0	0	244373	13	NULL	S
3	20	1	3	Masselmani, Mrs. Fatima	female	NULL	0	0	2649	7.22499990463257	NULL	C
4	27	0	3	Emir, Mr. Fared Chehab	male	NULL	0	0	2631	7.22499990463257	NULL	C
5	29	1	3	O'Dwyer, Miss. Ellen "Nellie"	female	NULL	0	0	330959	7.87919998168945	NULL	Q
6	30	0	3	Todoroff, Mr. Lalio	male	NULL	0	0	349216	7.89580011367798	NULL	S
7	32	1	1	Spencer, Mrs. William Aug...	female	NULL	1	0	PC 1...	146.520797729492	B78	C
8	33	1	3	Glynn, Miss. Mary Agatha	female	NULL	0	0	335677	7.75	NULL	Q
9	37	1	3	Mamee, Mr. Hanna	male	NULL	0	0	2677	7.22919988632202	NULL	C
10	43	0	3	Kraeff, Mr. Theodor	male	NULL	0	0	349253	7.89580011367798	NULL	C
11	46	0	3	Rogers, Mr. William John	male	NULL	0	0	S.C./...	8.05000019073486	NULL	S
12	47	0	3	Lennon, Mr. Denis	male	NULL	1	0	370371	15.5	NULL	Q
13	48	1	3	O'Driscoll, Miss. Bridget	female	NULL	0	0	14311	7.75	NULL	Q
14	49	0	3	Samaan, Mr. Youssef	male	NULL	2	0	2662	21.67919921875	NULL	C
15	56	1	1	Woolner, Mr. Hugh	male	NULL	0	0	19947	35.5	C52	S
16	65	0	1	Stewart, Mr. Albert A	male	NULL	0	0	PC 1...	27.7208003997803	NULL	C
17	66	1	3	Moubarek, Master. Gerios	male	NULL	1	1	2661	15.2458000183105	NULL	C
18	77	0	3	Staneff, Mr. Ivan	male	NULL	0	0	349208	7.89580011367798	NULL	S
19	78	0	3	Moutal, Mr. Rahamin Haim	male	NULL	0	0	374746	8.05000019073486	NULL	S

2. Filter out Passengers with the letters 'a', 'o' and 's' in their names whose age is also not known.

Ans) `select * from titanic where Name like '%[aos]%' and age is null`

---- Answer 2

```
select * from titanic where Name like '%[a-z]%' and age is null;
```

100 %

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	6	0	3	Moran, Mr. James	male	NULL	0	0	330877	8.45829963684082	NULL	Q
2	18	1	2	Williams, Mr. Charles Eugene	male	NULL	0	0	244373	13	NULL	S
3	20	1	3	Masselmani, Mrs. Fatima	female	NULL	0	0	2649	7.22499990463257	NULL	C
4	27	0	3	Emir, Mr. Fared Chehab	male	NULL	0	0	2631	7.22499990463257	NULL	C
5	29	1	3	O'Dwyer, Miss. Ellen "Nellie"	female	NULL	0	0	330959	7.87919998168945	NULL	Q
6	30	0	3	Todoroff, Mr. Lallo	male	NULL	0	0	349216	7.89580011367798	NULL	S
7	32	1	1	Spencer, Mrs. William Aug...	female	NULL	1	0	PC 1...	146.520797729492	B78	C
8	33	1	3	Glynn, Miss. Mary Agatha	female	NULL	0	0	335677	7.75	NULL	Q
9	37	1	3	Mamee, Mr. Hanna	male	NULL	0	0	2677	7.22919988632202	NULL	C
10	43	0	3	Kraeff, Mr. Theodor	male	NULL	0	0	349253	7.89580011367798	NULL	C
11	46	0	3	Rogers, Mr. William John	male	NULL	0	0	S.C./...	8.05000019073486	NULL	S
12	47	0	3	Lennon, Mr. Denis	male	NULL	1	0	370371	15.5	NULL	Q
13	48	1	3	O'Driscoll, Miss. Bridget	female	NULL	0	0	14311	7.75	NULL	Q
14	49	0	3	Samaan, Mr. Youssef	male	NULL	2	0	2662	21.67919921875	NULL	C
15	56	1	1	Woolner, Mr. Hugh	male	NULL	0	0	19947	35.5	C52	S
16	65	0	1	Stewart, Mr. Albert A	male	NULL	0	0	PC 1...	27.7208003997803	NULL	C
17	66	1	3	Moubarek, Master. Gerios	male	NULL	1	1	2661	15.2458000183105	NULL	C
18	77	0	3	Staneff, Mr. Ivan	male	NULL	0	0	349208	7.89580011367798	NULL	S
19	78	0	3	Moutal, Mr. Rahamin Haim	male	NULL	0	0	374746	8.05000019073486	NULL	S

### 3. Filter out the Passengers whose Ticket Number contains only 4 digits.

Ans) `select * from titanic where Ticket like '___' and Ticket != 'like';`

---- Answer 3

```
select * from titanic where Ticket like '___' and Ticket != 'like';
```

100 %

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	546	0	1	Nicholson, Mr. Arthur Ernest	male	64	0	0	693	26	NULL	S
2	873	0	1	Carlsson, Mr. Frans Olof	male	33	0	0	695	5	B51 B53 B55	S

4. What error will the console throw if we try to filter out fare amounts which are even numbers?

Ans) `select * from titanic where fare = Fare/2;`

---- Answer 4

```
select * from titanic where fare = Fare/2;
```

100 %

Results Messages

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	180	0	3	Leonard, Mr. Lionel	male	36	0	0	LINE	0	NULL	S
2	264	0	1	Harrison, Mr. William	male	40	0	0	112059	0	B94	S
3	272	1	3	Tomquist, Mr. William Henry	male	25	0	0	LINE	0	NULL	S
4	278	0	2	Parkes, Mr. Francis "Frank"	male	NULL	0	0	239853	0	NULL	S
5	303	0	3	Johnson, Mr. William Cahoon Jr	male	19	0	0	LINE	0	NULL	S
6	414	0	2	Cunningham, Mr. Alfred Fleming	male	NULL	0	0	239853	0	NULL	S
7	467	0	2	Campbell, Mr. William	male	NULL	0	0	239853	0	NULL	S
8	482	0	2	Frost, Mr. Anthony Wood "Archie"	male	NULL	0	0	239854	0	NULL	S
9	598	0	3	Johnson, Mr. Alfred	male	49	0	0	LINE	0	NULL	S
10	634	0	1	Parr, Mr. William Henry Marsh	male	NULL	0	0	112052	0	NULL	S
11	675	0	2	Watson, Mr. Ennis Hastings	male	NULL	0	0	239856	0	NULL	S
12	733	0	2	Knight, Mr. Robert J	male	NULL	0	0	239855	0	NULL	S
13	807	0	1	Andrews, Mr. Thomas Jr	male	39	0	0	112050	0	A36	S
14	816	0	1	Fry, Mr. Richard	male	NULL	0	0	112058	0	B102	S
15	823	0	1	Reuchlin, Jonkheer. John George	male	38	0	0	19972	0	NULL	S

5. Filter out details of those passengers whose Age and cabin details are unknown.

Ans) `select * from titanic where age is null and cabin is null;`

```

---- Answer 5
select * from titanic where age is null and cabin is null;

```

100 %

Results Messages

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	6	0	3	Moran, Mr. James	male	NULL	0	0	330877	8.45829963684082	NULL	Q
2	18	1	2	Williams, Mr. Charles Eugene	male	NULL	0	0	244373	13	NULL	S
3	20	1	3	Masselmani, Mrs. Fatima	female	NULL	0	0	2649	7.22499990463257	NULL	C
4	27	0	3	Emir, Mr. Farred Chehab	male	NULL	0	0	2631	7.22499990463257	NULL	C
5	29	1	3	O'Dwyer, Miss. Ellen "Nellie"	female	NULL	0	0	330959	7.87919998168945	NULL	Q
6	30	0	3	Todoroff, Mr. Lalio	male	NULL	0	0	349216	7.89580011367798	NULL	S
7	33	1	3	Glynn, Miss. Mary Agatha	female	NULL	0	0	335677	7.75	NULL	Q
8	37	1	3	Mamee, Mr. Hanna	male	NULL	0	0	2677	7.22919988632202	NULL	C
9	43	0	3	Kraeff, Mr. Theodor	male	NULL	0	0	349253	7.89580011367798	NULL	C
10	46	0	3	Rogers, Mr. William John	male	NULL	0	0	S.C./A.4. 23567	8.05000019073486	NULL	S
11	47	0	3	Lennon, Mr. Denis	male	NULL	1	0	370371	15.5	NULL	Q
12	48	1	3	O'Driscoll, Miss. Bridget	female	NULL	0	0	14311	7.75	NULL	Q
13	49	0	3	Samaan, Mr. Youssef	male	NULL	2	0	2662	21.67919921875	NULL	C
14	65	0	1	Stewart, Mr. Albert A	male	NULL	0	0	PC 17605	27.7208003997803	NULL	C
15	66	1	3	Moubarek, Master. Genios	male	NULL	1	1	2661	15.2458000183105	NULL	C
16	77	0	3	Staneff, Mr. Ivan	male	NULL	0	0	349208	7.89580011367798	NULL	S
17	78	0	3	Moutal, Mr. Rahamin Haim	male	NULL	0	0	374746	8.05000019073486	NULL	S
18	83	1	3	McDermott, Miss. Brigdet Delia	female	NULL	0	0	330932	7.78749990463257	NULL	Q
19	88	0	3	Slocovski, Mr. Selman Francis	male	NULL	0	0	SOTON/OQ 392086	8.05000019073486	NULL	S

6.Filter out details of passengers with passengerid which is a multiple of 10 and Pclass is 2 or 3.

Ans) `select * from titanic where Pclass in (10,2,3);`

```

---- Answer 6
select * from titanic where Pclass in (10,2,3);

```

100 %

Results Messages

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	1	0	3	Braund, Mr. Owen Harris	male	22	1	0	A/5 21171	7.25	NULL	S
2	3	1	3	Heikkinen, Miss. Laina	female	26	0	0	STON/O2. 3101282	7.92500019073486	NULL	S
3	5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	8.05000019073486	NULL	S
4	6	0	3	Moran, Mr. James	male	NULL	0	0	330877	8.45829963684082	NULL	Q
5	8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21.0750007629395	NULL	S
6	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11.1332998275757	NULL	S
7	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30.07080078125	NULL	C
8	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	16.7000007629395	G6	S
9	13	0	3	Saunderscock, Mr. William Henry	male	20	0	0	A/5. 2151	8.05000019073486	NULL	S
10	14	0	3	Andersson, Mr. Anders Johan	male	39	1	5	347082	31.2749996185303	NULL	S
11	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina	female	14	0	0	350406	7.85419988632202	NULL	S
12	16	1	2	Hewlett, Mrs. (Mary D Kingcome)	female	55	0	0	248706	16	NULL	S
13	17	0	3	Rice, Master. Eugene	male	2	4	1	382652	29.125	NULL	Q
14	18	1	2	Williams, Mr. Charles Eugene	male	NULL	0	0	244373	13	NULL	S
15	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vandemo...	female	31	1	0	345763	18	NULL	S
16	20	1	3	Masselmani, Mrs. Fatima	female	NULL	0	0	2649	7.22499990463257	NULL	C
17	21	0	2	Fynney, Mr. Joseph J	male	35	0	0	239865	26	NULL	S
18	22	1	2	Beesley, Mr. Lawrence	male	34	0	0	248698	13	D56	S
19	23	1	3	McGowan, Miss. Anna "Annie"	female	15	0	0	330923	8.02919960021973	NULL	Q



7. Update the ages of passengers whose age is unknown with the average age of all the passengers.

Ans) `update titanic set age = 30 where age is null;`  
`select avg(age) from titanic;`

---- Answer 7

```
update titanic set age = 30 where age is null;
select avg(age) from titanic;
```

100 %

Results Messages

(No column name)	
1	29.7588888888742

8. Delete all rows of passengers who did not survive.

Ans) `delete titanic where survived = 0;`  
`select * from titanic`

---- Answer 8

```
delete titanic where survived = 0;
select * from titanic
```

100 %

Results Messages

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
1	2	1	Cummings, Mrs. John Bradley (Florence Briggs Thayer)	female	38	1	0	PC 17599	71.2833023071289	C85	C
2	3	1	Heikkinen, Miss. Laina	female	26	0	0	STON/O2. 3101282	7.92500019073486	NULL	S
3	4	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53.0999984741211	C123	S
4	9	1	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11.1332998275757	NULL	S
5	10	1	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30.07080078125	NULL	C
6	11	1	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	16.7000007629395	G6	S
7	12	1	Bonnell, Miss. Elizabeth	female	58	0	0	113783	26.5499992370605	C103	S
8	16	1	Hewlett, Mrs. (Mary D Kingcome)	female	55	0	0	248706	16	NULL	S
9	18	1	Williams, Mr. Charles Eugene	male	30	0	0	244373	13	NULL	S
10	20	1	Masselmani, Mrs. Fatima	female	30	0	0	2649	7.22499990463257	NULL	C
11	22	1	Beesley, Mr. Lawrence	male	34	0	0	248698	13	D56	S
12	23	1	McGowan, Miss. Anna "Annie"	female	15	0	0	330923	8.02919960021973	NULL	Q
13	24	1	Sloper, Mr. William Thompson	male	28	0	0	113788	35.5	A6	S
14	26	1	Asplund, Mrs. Carl Oscar (Selma Augusta Emilia Johanna)	female	38	1	5	347077	31.3875007629395	NULL	S
15	29	1	O'Dwyer, Miss. Ellen "Nellie"	female	30	0	0	330959	7.87919998168945	NULL	Q
16	32	1	Spencer, Mrs. William Augustus (Marie Eugenie)	female	30	1	0	PC 17569	146.520797729492	B78	C
17	33	1	Glynn, Miss. Mary Agatha	female	30	0	0	335677	7.75	NULL	Q
18	37	1	Mamee, Mr. Hanna	male	30	0	0	2677	7.22919988632202	NULL	C
19	40	1	Nicola-Yarred, Miss. Jamila	female	14	1	0	2651	11.2417001724243	NULL	C

9. Update Cabin column with "Unknown" for all those passengers whose cabin information is not known.

Ans) `Update titanic set Cabin = 'Unknown' where cabin is null;`

```
---- Answer 9
Update titanic set Cabin = 'Unknown' where cabin is null;

100 %
Messages

(206 rows affected)

Completion time: 2022-04-27T22:32:42.0916443+05:30
```

10. Insert a new column "Default\_Col" with default value "Titanic"

Ans) `Alter Table titanic add Default_Col varchar(20);`  
`select * from titanic;`

```
--- Answer 10
Alter Table titanic add Default_Col varchar(20);

100 %
Messages

Commands completed successfully.

Completion time: 2022-04-27T22:34:31.1078159+05:30
```