

1. Select all columns from a table

```
SELECT * FROM BusCompany;
```

CID	CNAME	CADDRESS
1	ABC Bus Company	123 Main St
2	XYZ Bus Co.	456 Oak St
3	Sunshine Transit	789 Elm St
4	City Bus Lines	321 Maple Ave
5	Green Express	654 Pine St
6	Mega Bus Corp.	987 Cedar Ln
7	Transit Solutions	246 Birch Rd
8	Swift Transit	135 Oak Ave
9	Star Bus Services	864 Maple Dr
10	Blue Horizon Transit	975 Elm Rd
11	Golden Bus Lines	532 Pine Ave
12	Northwest Transit	247 Cedar Ave
13	Coastal Bus Co.	369 Maple St
14	Metro Transit	753 Oak Rd
15	Skyline Bus Services	864 Cedar St
16	Sunrise Transit	123 Elm Ave
17	Sunset Bus Corp.	456 Pine Rd
18	Speedy Transit	789 Oak Ave
19	Big City Bus Co.	321 Maple Dr
20	Northern Express	654 Pine Rd

20 rows returned in 0.01 seconds [Download](#)

2. **Select some columns:** Selecting only Company Id and Company Name from the table BusCompany

```
SELECT Cid,Cname FROM BusCompany;
```

Results Explain Describe Saved :

CID	CNAME
1	ABC Bus Company
2	XYZ Bus Co.
3	Sunshine Transit
4	City Bus Lines
5	Green Express
6	Mega Bus Corp.
7	Transit Solutions
8	Swift Transit
9	Star Bus Services
10	Blue Horizon Transit
11	Golden Bus Lines
12	Northwest Transit
13	Coastal Bus Co.
14	Metro Transit
15	Skyline Bus Services
16	Sunrise Transit
17	Sunset Bus Corp.
18	Speedy Transit
19	Big City Bus Co.
20	Northern Express

20 rows returned in 0.01 seconds

3. **Select from where:** Returns Company name from the table BusCompany only where company Id is 1.

```
SELECT Cname FROM BusCompany WHERE Cid=1;
```

Results Explain Describe Saved :

CNAME
ABC Bus Company

1 rows returned in 0.00 seconds

4. **AND:** Selecting Driver's name from DRIVER table where sex is female and age is 24.

```
SELECT Dname FROM DRIVER WHERE Dsex='Female' AND Dage=24;
```

Results Explain Describe Save

DNAME
Sneha
Anjali

2 rows returned in 0.01 seconds

5. **OR:** Selecting Driver's name from DRIVER table where their age is 25 or sex is male.

```
SELECT Dname FROM DRIVER WHERE Dage=25 OR Dsex='Male';
```

Results Explain Describe Save

DNAME
Rajesh
Amit
Vikram
Rahul
Sanjay
Riya
Avinash
Arjun
Alok
Vishal
Rakesh

11 rows returned in 0.00 seconds

6. **Calculations in select:** Selecting Staff id of all staff having the post of manager and updating salary by twice the original amount and displaying it.

```
SELECT Sid,Ssalary*2 as Updated_Salary FROM Staff WHERE Post='Manager';
```

Results Explain Describe Save

SID	UPDATED_SALARY
4	60000
10	60000
16	60000

3 rows returned in 0.01 seconds

7. **Distinct**: Selecting different values for age of all the staff

SELECT DISTINCT Sage from Staff;

SAGE
25
22
30
34
28
29
26
31
24
32
23
35
33
27
36

15 rows returned in 0.01 seconds

8. **Order by**: Display the entire information about drivers in ascending order of their age

Select * from DRIVER order by Dage;

Results	Explain	Describe	Saved SQL	History		
DID	CID	DNAME	DAGE	DSALARY	DSEX	LICENCE_NO
12	5	Neha	23	19000	Female	34562
20	12	Anjali	24	20000	Female	23460
4	1	Sneha	24	20000	Female	45678
10	4	Riya	25	20000	Female	12340
16	9	Shreya	26	21000	Female	78906
8	5	Kavya	26	21000	Female	89012
2	2	Priya	27	22000	Female	23456
14	8	Divya	27	22000	Female	56784
6	4	Smita	28	23000	Female	67890
18	10	Nisha	28	23000	Female	90128
9	6	Sanjay	29	22000	Male	90123
5	3	Vikram	30	24000	Male	56789
17	10	Vishal	30	24000	Male	89017
13	8	Arjun	31	26000	Male	45673
19	11	Rakesh	32	25000	Male	12349
1	1	Rajesh	32	25000	Male	12345
7	5	Rahul	33	26000	Male	78901
15	7	Alok	34	27000	Male	67895
3	2	Amit	35	27000	Male	34567
11	7	Avinash	36	28000	Male	23451

20 rows returned in 0.00 seconds

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9. **String matching- 2 queries:**

Display name of staff where name ends with 'ta'.

Select Sname from Staff where Sname like '%ta';

Results Explain Describe Sa

SNAME
Smita
Shweta

2 rows returned in 0.00 seconds

Display name of Driver where name starts with 'Ra'.

Select Dname from DRIVER WHERE Dname like 'Ra%';

Results Explain Describe Sa

DNAME
Rajesh
Rahul
Rakesh

3 rows returned in 0.01 seconds

10. **Union:** Display age of all drivers and staff and displays only one value for common age.

Select Dage from DRIVER

union

Select Sage from STAFF;

Results Explain Describe Save

DAGE
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36

15 rows returned in 0.00 seconds

11. **Intersection:** Displays intersection of all age value between driver and staff

Select Dage from DRIVER

INTERSECT

Select Sage from Staff;

Results Explain Describe Save

DAGE
23
24
25
26
27
28
29
30
31
32
33
34
35
36

14 rows returned in 0.00 seconds

12. **Except:** returns names of driver which are not present in staff

Select dname from DRIVER

EXCEPT

select sname from Staff;

Dname
Alok
Anjali
Arjun
Avinash
Divya
Kavya
Neha
Nisha
Rajesh
Rakesh
Riya
Sanjay
Shreya
Vikram
Vishal

13. **Min**: returns minimum salary of staff

Select min(Ssalary) from Staff;

MIN(SSALARY)
20000

1 rows returned in 0.01 seconds

14. **Max**: returns maximum salary of staff

select max(Ssalary) from Staff;

Results	Explain	Describe	Sav
<hr/>			
MAX(SSALARY)			
30000			

1 rows returned in 0.01 seconds

15. **Avg** : returns average salary of staff

Select avg(SSalary) from Staff;

Results	Explain	Describe	Sa
<hr/>			
AVG(SSALARY)			
24100			

1 rows returned in 0.01 seconds

16. **Sum**: returns sum of all salaries given to all staff

Select sum(Ssalary) from Staff;

Results	Explain	Describe	Sav
<hr/>			
SUM(SSALARY)			
482000			

1 rows returned in 0.00 seconds

17. **Count:** Count the number of all Driver's Ids

Select count(Did) from DRIVER;

Results Explain Describe Sa

COUNT(DID)

20

1 rows returned in 0.00 seconds

18. **Group by:** Groups destination with same name together and returns count of ticket id for each destination.

Select count(Tid),Destination from Ticket group by Destination;

Results Explain Describe Save

COUNT(TID)	DESTINATION
1	Kanpur
3	Jaipur
2	Delhi
4	Mumbai
2	Bangalore
2	Lucknow
2	Nagpur
2	Surat
2	Chennai

9 rows returned in 0.01 seconds

Groups all same age together and returns count of Staff Id having that age

Select count(Sid),Sage from Staff group by Sage;

Results Explain Describe Save

COUNT(SID)	SAGE
2	25
1	22
1	30
1	34
2	28
2	29
1	26
1	31
2	24
1	32
1	23
1	35
1	33
2	27
1	36

15 rows returned in 0.01 seconds

19. **Group by having:** Returns number of ticket ids which are more than 2 with same destinations grouped together

Select count(Tid),destination from Ticket group by Destination having count(Tid)>2;

COUNT(TID)	DESTINATION
3	Jaipur
4	Mumbai

2 rows returned in 0.00 seconds

Returns count of driver ids which are more than 1 with same age grouped together.
select count (Did),Dage from DRIVER group by Dage having count(Did)>1;

Results Explain Describe S:

COUNT(DID)	DAGE
2	30
2	28
2	26
2	32
2	24
2	27

6 rows returned in 0.00 seconds

20. **Null values:** returns field with null value.

Select * from Passenger where Psex is null;

Results Explain Describe Saved SQL History

PNAME	PID	PSEX	P_AGE	TID
Mason	13	-	24	13
Alexander	17	-	28	17

2 rows returned in 0.00 seconds [Download](#)