

SQL CASE STUDY

Name: *Karella Rupa*

1. Query to find Second Highest Salary of Employee

select max(annSal) as 2ndHighSalary from employee where annSal<(select max(annSal) from employee);

```
31 -- display second highest salary
32 • select max(annSal) as 2ndHighSalary from employee where annSal<(select max(annSal) from empl
33
```

2ndHighSalary
1000000

Result 4 x Read On

Output

Action Output

#	Time	Action	Message
218	21:24:56	select max(annSal) as 2HighSalary from employee where annSal<(select max(annSal) from e...	1 row(s) returned
219	21:26:22	select max(annSal) as 2ndHighSalary from employee where annSal<(select max(annSal) from...	1 row(s) returned

2. Query to find duplicate rows in table

select eName, annSal, loc, yoj, mgrID, dept, count(*) as count from employee group by eName, annSal, loc, yoj, mgrID, dept having count(*)> 1;

```
34 -- find duplicate rows in table
35 • select eName,annSal,loc,yoj,mgrID,dept,count(*) as count from employee group by eName,annSal
36
```

eName	annSal	loc	yoj	mgrID	dept	count
Priya	950000	Mum	2015	2	IT	2
Surya	400000	Chennai	2019	4	HR	2

Result 8 x Read On

Output

Action Output

#	Time	Action	Message
224	21:34:38	select eName,annSal,loc,yoj,mgrID,dept,count(*) as count from employee group by eName,a...	2 row(s) returned
225	21:36:33	select eName,annSal,loc,yoj,mgrID,dept,count(*) as count from employee group by eName,a...	2 row(s) returned

3. Query to fetch monthly Salary of Employee if annual salary is given

select *, annSal/12 as monSal from employee;

```
37 -- to fetch monthly Salary of Employee if annual salary is given
38 • select *, annSal/12 as monSal from employee;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:				
eID	eName	loc	dept	annSal	yoj	mgrID	monSal
1	Anil	Hyd	IT	700000	2017	6	58333.3333
2	Kavya	Mum	HR	500000	2016	1	41666.6667
3	Arjun	Bnglr	NOTES	450000	2016	2	37500.0000
4	Rohit	Chennai	Sales	550000	2015	3	45833.3333
5	Janvi	Pune	Sales	400000	2019	5	33333.3333
6	Meera	Pune	IT	750000	2016	3	62500.0000

Result 9 x Read On

Output

Action Output

#	Time	Action	Message
✓ 225	21:36:33	select eName,annSal,loc,yoj,mgrID,dept,count(*) as count from employee group by eName,a...	2 row(s) returned
✓ 226	21:43:28	select *, annSal/12 as monSal from employee LIMIT 0, 1000	20 row(s) returned

4. Query to fetch first record from Employee table

select * from employee limit 1;

40 -- to fetch first record from Employee table

41 • `select * from employee limit 1;`

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

eID	eName	loc	dept	annSal	yoj	mgrID
1	Anil	Hyd	IT	700000	2017	6

employee 10

Read On

Output

Action Output

#	Time	Action	Message
✓ 226	21:43:28	select *, annSal/12 as monSal from employee LIMIT 0, 1000	20 row(s) returned
✓ 227	22:01:32	select * from employee limit 1	1 row(s) returned

5. Query to fetch last record from Employee table

select * from employee order by eID desc limit 1;

```
43  -- to fetch last record from Employee table
44  • select * from employee order by eID desc limit 1;
45
```

Result Grid						
Filter Rows: <input type="text"/>						
Export:						
Wrap Cell Content:						
Fetch rows:						
eID	eName	loc	dept	annSal	yoj	mgrID
20	Sai	Pune	NULL	1000000	2016	1

employee 11 x

Read Only

Output

Action Output

#	Time	Action	Message
227	22:01:32	select * from employee limit 1	1 row(s) returned
228	22:06:37	select * from employee order by eID desc limit 1	1 row(s) returned

6. Query to fetch first five records from Employee table

select * from employee limit 5;

```
46  -- display first 5 Records from Employee table
47  • select * from employee limit 5;
48
```

Result Grid						
Filter Rows: <input type="text"/>						
Export:						
Wrap Cell Content:						
Fetch rows:						
eID	eName	loc	dept	annSal	yoj	mgrID
1	Anil	Hyd	IT	700000	2017	6
2	Kavya	Mum	HR	500000	2016	1
3	Arjun	Bnglr	NULL	450000	2016	2
4	Rohit	Chennai	Sales	550000	2015	3
5	Janvi	Pune	Sales	400000	2019	5

employee 16 x

Output

Action Output

#	Time	Action	Message
234	22:14:31	select * from employee limit 5	5 row(s) returned

7. Query to display Nth Record from Employee table

`select * from employee limit 1 offset (n-1);`

→ OFFSET keyword is often used with LIMIT to control the number of rows returned by a query and to specify the starting point for fetching the results

```
49 -- display Nth Record from Employee table(say n=12)
50 -- select * from employee limit 1 offset (n-1);
51 • select * from employee limit 1 offset 11;
```

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	12	Mahesh	Pune	HR	650000	2016	6

employee 21 x				Read Onl
Output				
Action Output				
#	Time	Action	Message	
✓ 240	22:29:37	select * from employee limit 5	5 row(s) returned	
✓ 241	22:29:43	select * from employee limit 1 offset 11	1 row(s) returned	

8. Query to display 3 Highest salaries records from Employee table

`select * from employee order by annSal desc limit 3;`

```
53 -- display 3 Highest salaries records from Employee table
54 • select * from employee order by annSal desc limit 3;
55
```

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	9	Praveen	Mum	IT	1200000	2017	2
	20	Sai	Pune	NULL	1000000	2016	1
	13	Priya	Mum	IT	950000	2015	2

employee 22 x				Read Onl
Output				
Action Output				
#	Time	Action	Message	
✗ 242	22:39:08	select * from employee order by monSal desc limit 3	Error Code: 1054. Unknown column 'monSal' in 'order clause'	
✓ 243	22:39:24	select * from employee order by annSal desc limit 3	3 row(s) returned	

9. How to Display Odd rows in Employee table

```
56 -- Display Odd rows in the Employee table
57 • select * from employee where eID%2!=0;
```

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

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	1	Anil	Hyd	IT	700000	2017	6
	3	Arjun	Bnglr	NULL	450000	2016	2
	5	Janvi	Pune	Sales	400000	2019	5
	7	Priya	Mum	IT	950000	2015	2
	9	Praveen	Mum	IT	1200000	2017	2
	11	Mohan	Bnglr	IT	700000	2018	1

employee 23 x

Output

Action Output

#	Time	Action	Message
✓ 243	22:39:24	select * from employee order by annSal desc limit 3	3 row(s) returned
✓ 244	22:46:18	select * from employee where eID%2!=0 LIMIT 0, 1000	10 row(s) returned

10. How to Display Even rows in the Employee table

```
59 -- Display even rows in the Employee table
60 • select * from employee where eID%2=0;
61
```

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

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	2	Kavya	Mum	HR	500000	2016	1
	4	Rohit	Chennai	Sales	550000	2015	3
	6	Meera	Pune	IT	750000	2016	3
	8	Anjali	Hyd	NULL	600000	2015	4
	10	Surya	Chennai	HR	400000	2019	4
	12	Mahesh	Pune	HR	650000	2016	6

employee 24 x

Read O

Output

Action Output

#	Time	Action	Message
✓ 244	22:46:18	select * from employee where eID%2!=0 LIMIT 0, 1000	10 row(s) returned
✓ 245	22:47:42	select * from employee where eID%2=0 LIMIT 0, 1000	10 row(s) returned

11. How to fetch 3rd highest salary using Rank Function

```
select * from (select *,rank() over(order by annSal desc) as SalRank from employee)
employee where SalRank=3 ;
```

```
62  -- to fetch 3rd highest salary using Rank Function
63  •  select * from (select *,rank() over(order by annSal desc) as SalRank from employee) employee
64
```

eID	eName	loc	dept	annSal	yoj	mgrID	SalRank
7	Priya	Mum	IT	950000	2015	2	3
13	Priya	Mum	IT	950000	2015	2	3

Result 28 x Read Only

Output

#	Time	Action	Message
✓ 251	22:58:22	select * from (select rank() over(order by annSal desc) as SalRank from employee) employee ...	2 row(s) returned
✓ 252	22:58:33	select * from (select *,rank() over(order by annSal desc) as SalRank from employee) employee...	2 row(s) returned

12. How Can i create table with same structure of Employee table

```
create table newemployee like employee;
select * from newemployee
```

```
65  -- create table with same structure of Employee table
66  •  create table newemployee like employee;
67  •  select * from newemployee
```

eID	eName	loc	dept	annSal	yoj	mgrID
-----	-------	-----	------	--------	-----	-------

newemployee 29 x

Output

#	Time	Action	Message
✓ 254	23:20:08	create table newemployee like employee	0 row(s) affected
✓ 255	23:20:08	select * from newemployee LIMIT 0, 1000	0 row(s) returned

13. Display first 50% records from the Employee table?

```
69 -- Display first 50% records from Employee table
70 • select * from employee where eid<=(select count(eid)/2 from employee);
71
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

eID	eName	loc	dept	annSal	yoj	mgrID
1	Anil	Hyd	IT	700000	2017	6
2	Kavya	Mum	HR	500000	2016	1
3	Arjun	Bnglr	NULL	450000	2016	2
4	Rohit	Chennai	Sales	550000	2015	3
5	Janvi	Pune	Sales	400000	2019	5
6	Meera	Pune	IT	750000	2016	3
7	Priya	Mum	IT	950000	2015	2
8	Anjali	Hyd	NULL	600000	2015	4
9	Praveen	Mum	IT	1200000	2017	2
10	Surya	Chennai	HR	400000	2019	4

employee 46

Read Only

Output

Action Output

#	Time	Action	Message
73	10:52:54	select * from employee where eid>(select count(eid)/2 from employee) LIMIT 0, 1000	10 row(s) returned
74	10:53:44	select * from employee where eid<=(select count(eid)/2 from employee) LIMIT 0, 1000	10 row(s) returned

14. Display the last 50% records from the Employee table?

```
72 -- Display last 50% records from Employee table
73 • select * from employee where eid>(select count(eid)/2 from employee);
74
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	11	Mohan	Bnglr	IT	700000	2018	1
	12	Mahesh	Pune	HR	650000	2016	6
	13	Priya	Mum	IT	950000	2015	2
	14	Ajay	Hyd	Mrkt	400000	2021	3
	15	Vamsi	Chennai	Mrkt	550000	2018	5
	16	Anand	Mum	Sales	400000	2022	4
	17	Rupa	Bnglr	IT	550000	2019	1
	18	Sri	Pune	Sales	350000	2023	6
	19	Surya	Chennai	HR	400000	2019	4
	20	Sai	Pune	HR	1000000	2016	1

employee 47

Read Only

Output

Action Output

#	Time	Action	Message
74	10:53:44	select * from employee where eid<=(select count(eid)/2 from employee) LIMIT 0, 1000	10 row(s) returned
75	10:54:35	select * from employee where eid>(select count(eid)/2 from employee) LIMIT 0, 1000	10 row(s) returned

15. How Can I create a table with the same structure with data from the Employee table?

```
create table newemployee1 as select * from employee;  
select * from newemployee1;
```

```
75 -- create a table with the same structure with data from the Employee table  
76 • create table newemployee1 as select * from employee;  
77 • select * from newemployee1;
```

eID	eName	loc	dept	annSal	yoj	mgrID
1	Anil	Hyd	IT	700000	2017	6
2	Kavya	Mum	HR	500000	2016	1
3	Arjun	Bnglr	HR	450000	2016	2
4	Rohit	Chennai	Sales	550000	2015	3
5	Janvi	Pune	Sales	400000	2019	5
6	Meera	Pune	IT	750000	2016	3
7	Priya	Mum	IT	950000	2015	2
8	Anjali	Hyd	HR	600000	2015	4
9	Praveen	Mum	IT	1200000	2017	2
10	Surya	Chennai	HR	400000	2019	4
11	Mohan	Bnglr	IT	700000	2018	1
12	Mahesh	Pune	HR	650000	2016	6
13	Priya	Mum	IT	950000	2015	2
14	Anil	Hyd	IT	700000	2017	6

newemployee1 30 x

Output

Action Output

#	Time	Action	Message
262	23:48:19	CREATE TABLE NewEmployee1 AS SELECT * FROM Employee	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0
263	23:48:39	select * from newemployee1 LIMIT 0, 1000	20 row(s) returned

lay1.sql

16. How do I fetch only common records between 2 tables.

→ fetching only common records between 2 tables can be done by inner join (equi join)

```
select * from employee inner join manager on employee.mgrID = manager.mgrID;
```

```
85  
86 -- fetch only common records between 2 tables  
87 • select * from employee inner join manager on employee.mgrID = manager.mgrID;  
88
```

eID	eName	loc	dept	annSal	yoj	mgrID	mgrID	mName
2	Kavya	Mum	HR	500000	2016	1	1	Akshay
8	Anjali	Hyd	HR	600000	2015	4	4	Nitin
10	Surya	Chennai	HR	400000	2019	4	4	Nitin
11	Mohan	Bnglr	IT	700000	2018	1	1	Akshay
16	Anand	Mum	Sales	400000	2022	4	4	Nitin
17	Rupa	Bnglr	IT	550000	2019	1	1	Akshay
19	Surya	Chennai	HR	400000	2019	4	4	Nitin
20	Sai	Pune	HR	1000000	2016	1	1	Akshay

Result 8 x

Output

Action Output

#	Time	Action	Message
26	09:23:18	select * from manager LIMIT 0, 1000	4 row(s) returned
27	09:23:23	select * from employee inner join manager on employee.mgrID = manager.mgrID LIMIT 0, 1000	8 row(s) returned

17. Find Query to get information of Employee where Employee is not assigned to the department

```
89 -- get information of Employee where Employee is not assigned to the department
90 • select * from employee where dept IS NULL;
91
```

Result Grid						
Filter Rows:						
Export:						
Wrap Cell Content:						
eID	eName	loc	dept	annSal	yoy	mgrID
3	Arjun	Bnglr	NULL	450000	2016	2
8	Anjali	Hyd	NULL	600000	2015	4
20	Sai	Pune	NULL	1000000	2016	1

employee 13			
Read Only			
Output			
Action Output			
#	Time	Action	Message
22	09:23:18	insert into manager values(1, 'Akshay')	1 row(s) affected
23	09:23:18	insert into manager values(9, 'John')	1 row(s) affected

18. How to get distinct records from the table without using distinct keyword.

```
121 -- get distinct records from table
122 • select mgrID,mname from manager group by mgrID,mname having count(*)=1;
123
```

Result Grid		Filter Rows:		Export:		Wrap Cell Content:	
1	Akshay	4	Nitin	2	Neha	3	Srija
5	Satya	6	vinod				

manager 49			
Read Only			
Output			
Action Output			
#	Time	Action	Message
76	10:58:16	select mgrID,mname from manager group by mgrID,mname having count(*)<1 LIMIT 0, 1000	0 row(s) returned
77	10:58:32	select mgrID,mname from manager group by mgrID,mname having count(*)=1 LIMIT 0, 1000	6 row(s) returned

19. Select all records from Employee table whose name is 'Anil and 'Praveen'

```
92 -- display all records from Employee table whose name is 'Anil and 'Praveen'
93 • select * from employee where ename='Anil' OR ename='Praveen';
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	1	Anil	Hyd	IT	700000	2017	6
	9	Praveen	Mum	IT	1200000	2017	2

employee 17

Output

Action Output

#	Time	Action	Message
✓ 35	09:47:03	select * from employee where ename='Priya' OR ename='Praveen' LIMIT 0, 1000	3 row(s) returned
✓ 36	09:47:14	select * from employee where ename='Anil' OR ename='Praveen' LIMIT 0, 1000	2 row(s) returned

20. Select all records from Employee table where name not in 'Anil and 'Praveen'

```
95 -- display all records from Employee table whose name is not 'Anil and 'Praveen'
96 select * from employee where ename!='Anil' AND ename!='Praveen';
97
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	2	Kavya	Mum	HR	500000	2016	1
	3	Arjun	Bnglr	NULL	450000	2016	2
	4	Rohit	Chennai	Sales	550000	2015	3
	5	Janvi	Pune	Sales	400000	2019	5
	6	Meera	Pune	IT	750000	2016	3
	7	Priya	Mum	IT	950000	2015	2
	8	Anjali	Hyd	NULL	600000	2015	4
	10	Surya	Chennai	HR	400000	2019	4
	11	Mohan	Bnglr	IT	700000	2018	1
	12	Mahesh	Pune	HR	650000	2016	6
	13	Priya	Mum	IT	950000	2015	2
	14	Ajay	Hyd	Mrkt	400000	2021	3
	15	Vamsi	Chennai	Mrkt	550000	2018	5
	16	Anand	Mum	Sales	400000	2022	4
	17	Pune	Mrkt	IT	550000	2019	1

employee 18

Read Only

Output

Action Output

#	Time	Action	Message
✓ 36	09:47:14	select * from employee where ename='Anil' OR ename='Praveen' LIMIT 0, 1000	2 row(s) returned
✓ 37	09:48:56	select * from employee where ename!='Anil' AND ename!='Praveen' LIMIT 0, 1000	18 row(s) returned

21. how to write sql query for the below scenario

I/p:DATABASE

O/p:

D

A

T

A

B

A

S

E

The screenshot shows a SQL Developer window titled 'CaseStudy*'. The query editor contains the following SQL code:

```
-- display "database" each char in a row
select 'd' as output
union
select 'a'
union all
select 't'
union all
select 'a'
union all
select 'b'
union all
select 'a'
union all
select 's'
union all
select 'e'
```

The 'Result Grid' shows the output of the query:

output
d
a
t
a
b
a
s
e

Below the result grid, the 'Output' window shows the execution log:

#	Time	Action	Message
87	11:52:53	select 'd' as output union select 'a' union select 't' union select 'a' union select 'b' union select...	6 row(s) returned
88	11:53:25	select 'd' as output union select 'a' union all select 't' union all select 'a' union all select 'b' uni...	8 row(s) returned

22. fetch all the records from Employee whose joining year is 2017

The screenshot shows a SQL Developer window titled 'employee 57'. The query editor contains the following SQL code:

```
-- fetch all the records from Employee whose joining year is 2017
select * from employee where yoj=2017;
```

The 'Result Grid' shows the output of the query:

eID	eName	loc	dept	annSal	yoj	mgrID
1	Anil	Hyd	IT	700000	2017	6
9	Praveen	Mum	IT	1200000	2017	2

Below the result grid, the 'Output' window shows the execution log:

#	Time	Action	Message
88	11:53:25	select 'd' as output union select 'a' union all select 't' union all select 'a' union all select 'b' uni...	8 row(s) returned
89	11:56:37	select * from employee where yoj=2017 LIMIT 0, 1000	2 row(s) returned

23. find maximum salary of each department

select dept,max(annsal) from employee where dept is not null group by dept ;

```
101 -- find maximum salary of each department
102 • select dept,max(annsal) from employee where dept is not null group by dept order by dept
103
```

dept	max(annsal)
HR	650000
IT	1200000
Mrkt	550000
Sales	550000

Result 25 × Read Only

Output

Action Output

#	Time	Action	Message
43	10:01:20	select dept,max(annsal) from employee group by dept order by dept LIMIT 0, 1000	5 row(s) returned
44	10:02:12	select dept,max(annsal) from employee where dept is not null group by dept order by dept	4 row(s) returned

24. find all Employees with its managers

```
108 -- find all Employees with its managers
109 • select * from employee left outer join manager on employee.mgrid = manager.mgrid;
110
```

eID	eName	loc	dept	annSal	yoj	mgrid	mgrid	mName
1	Anil	Hyd	IT	700000	2017	6	6	vinod
2	Kavya	Mum	HR	500000	2016	1	1	Akshay
3	Arjun	Bnglr	NULL	450000	2016	2	2	Neha
4	Rohit	Chennai	Sales	550000	2015	3	3	Srija
5	Janvi	Pune	Sales	400000	2019	5	5	Satya
6	Meera	Pune	IT	750000	2016	3	3	Srija
7	Priya	Mum	IT	950000	2015	2	2	Neha
8	Anjali	Hyd	NULL	600000	2015	4	4	Nitin
9	Praveen	Mum	IT	1200000	2017	2	2	Neha
10	Surya	Chennai	HR	400000	2019	4	4	Nitin
11	Mohan	Bnglr	IT	700000	2018	1	1	Akshay
12	Mahesh	Pune	HR	650000	2016	6	6	vinod
13	Priya	Mum	IT	950000	2015	2	2	Neha
14	Ajay	Hyd	Mrkt	400000	2021	3	3	Srija
15	Vamsi	Chennai	Mrkt	550000	2018	5	5	Satya

Result 29 × Read Only

Output

Action Output

#	Time	Action	Message
52	10:11:37	insert into manager values(6, 'vinod')	1 row(s) affected
53	10:11:42	select * from employee left outer join manager on employee.mgrid = manager.mgrid LIMIT 0, 1...	20 row(s) returned

25. Display the name of employees who have joined in 2016 and salary is greater than 10000

```
111 -- Display the name of employees who have joined in 2016 and salary is greater than
112 • select * from employee where yoj=2016 having annsal/12>10000
```

	eID	eName	loc	dept	annSal	yoj	mgrID
▶	2	Kavya	Mum	HR	500000	2016	1
	3	Arjun	Bnglr	NULL	450000	2016	2
	6	Meera	Pune	IT	750000	2016	3
	12	Mahesh	Pune	HR	650000	2016	6
	20	Sai	Pune	NULL	1000000	2016	1

employee 35 x Read Only

Output

Action Output

#	Time	Action	Message
✓ 58	10:17:58	select * from employee where yoj=2016 having annsal>10000 LIMIT 0, 1000	5 row(s) returned
✓ 59	10:18:15	select * from employee where yoj=2016 having annsal/12>10000 LIMIT 0, 1000	5 row(s) returned

26. How to display the following using a query?

*
**

```
124 -- How to display following using query?
125 -- *
126 -- **
127 -- ***
128 • select repeat('*',1) as pattern
129 union
130 select repeat('*',2)
131 union
132 select repeat('*',3);
```

	pattern
▶	*
	**

Result 50 x Read Only

Output

Action Output

#	Time	Action	Message
✓ 77	10:58:32	select mgrID,mname from manager group by mgrID,mname having count(*)=1 LIMIT 0, 1000	6 row(s) returned
✓ 78	11:29:02	select repeat("",1) as pattern union select repeat("",2) union select repeat("",3)	3 row(s) returned

27. How to add the email validation using only one query?

Query-

```
WITH CustomersWithEmailValidation AS (  
    SELECT  
        customer_id,  
        first_name,  
        last_name,  
        email,  
        CASE  
            WHEN email LIKE '%_@__%.__%' AND email NOT LIKE '%@%@%' THEN  
                'Valid'  
            ELSE 'Invalid'  
        END AS email_validation_status  
    FROM  
        Customers  
)  
SELECT * FROM CustomersWithEmailValidation;
```

Output

153 `SELECT * FROM CustomersWithEmailValidation;`
154

customer_id	first_name	last_name	email	email_validation_status
1	John	Doe	john.doe@example.com	Valid
2	Jane	Smith	jane.smith@example.com	Valid
3	Bob	Johnson	bob.johnson@example.com	Valid
4	Alice	Williams	alice.williams@example.com	Valid
5	Charlie	Brown	charlie.brown@example.com	Valid
6	Eva	Davis	eva.davis@example.com	Valid
7	Frank	Miller	frank.miller@example.com	Valid
8	Grace	Taylor	grace.taylor@example.com	Valid
9	Harry	Smith	harry.smith@example.com	Valid
10	Ivy	Anderson	ivy.anderson@example.com	Valid
11	Jack	Martin	jack.martin@example.com	Valid

Result 5 ×

Output

#	Time	Action	Message
✓ 57	14:35:29	with recursive series as(select 1 as number union all select number+1 from series where nu...	100 row(s) returned
✓ 58	14:38:13	WITH CustomersWithEmailValidation AS (SELECT customer_id, first_name, ...	20 row(s) returned

28. How to display 1 to 100 Numbers with a query?

```
134 -- display 1 to 100 Numbers with query
135 • with recursive series
136 as(select 1 as number union all select number+1 from series where number <100)
137 select number from series;
138
```

number
1
2
3
4
5
6
7
8
9
10
...

Result 4 x

Output

Action Output

#	Time	Action	Message
56	14:34:59	WITH RECURSIVE series AS (SELECT 1 AS number UNION ALL SELECT number ...	100 row(s) returned

29. How to remove duplicate rows from table

```
114 -- remove duplicate rows from table
115 • create table employee_NoDup as select distinct * from employee;
116 • select * from employee_NoDup;
117
```

eID	eName	loc	dept	annSal	yoy	mgrID
1	Anil	Hyd	IT	700000	2017	6
2	Kavya	Mum	HR	500000	2016	1
3	Arjun	Bnglr	HR	450000	2016	2
4	Rohit	Chennai	Sales	550000	2015	3
5	Janvi	Pune	Sales	400000	2019	5
6	Meera	Pune	IT	750000	2016	3
7	Priya	Mum	IT	950000	2015	2
8	Anjali	Hyd	HR	600000	2015	4
9	Praveen	Mum	IT	1200000	2017	2
10	Surya	Chennai	HR	400000	2019	4
11	Mohan	Bnglr	IT	700000	2018	1

employee_NoDup 36 x

Output

Action Output

#	Time	Action	Message
60	10:24:35	create table employee_NoDup as select distinct * from employee	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0
61	10:25:15	select * from employee_NoDup LIMIT 0, 1000	20 row(s) returned

30. How to find count of duplicate rows

```
118 -- find count of duplicate rows
119 • select mgrID,mname, count(*) from manager group by mgrID,mname having count(*)>1;
120
```

Result Grid			
Filter Rows: <input type="text"/>			
Export:			
Wrap Cell Content:			
	mgrID	mname	count(*)
▶	9	John	2
	8	Amelia	2

Result 42 x [Read C](#)

Output

Action Output			
#	Time	Action	Message
✓ 69	10:43:50	select mgrID,mname from manager group by mgrID,mname having count(*)>1 LIMIT 0, 1000	2 row(s) returned
✓ 70	10:44:03	select mgrID,mname, count(*) from manager group by mgrID,mname having count(*)>1 LIMIT...	2 row(s) returned