

```

create table employees (
eid INT ,
fname VARCHAR(32),
lname VARCHAR(32),
city VARCHAR(32),
esal INT,
age INT,
PRIMARY KEY(eid)
);
insert into employees values
(101,'Rahul','Gandhi','Wayanad',45000,52),
(102,'Sonia','Gandhi','New Delhi',55000,75),
(103,'Priyanka','Gandhi','Nodia',65000,45),
(104,'Modi','Narendra','New Delhi',75000,69),
(105,'Rajni','Kanth','Chennai',85000,65),
(106,'Vijay','Setupathi','Chennai',95000,47),
(107,'Nayana','Tara','Chennai',25000,40),
(108,'Alia','Bhut','Mumbai',45000,31),
(109,'Mahesh','Bhut','Mumbai',15000,68),
(110,'Sonam','Kapoor','Mumbai',30000,27),
(111,'Anil','Kapoor','Mumbai',38000,40),
(112,'Raj','Kapoor','Mumbai',18000,78),
(113,'Vishnu','Manchu','Hyderabad',10000,40),
(114,'Manoj','Manchu','Hyderabad',12000,35);
INSERT INTO employees (eid,fname,lname,city,age)
values
(115,'Mohan','Manchu','Hyderabad',70);

```

```

select * from employees;

```

```

+-----+-----+-----+-----+-----+-----+
| eid | fname | lname | city | esal | age |
+-----+-----+-----+-----+-----+-----+
| 101 | Rahul | Gandhi | Wayanad | 45000 | 52 |
| 102 | Sonia | Gandhi | New Delhi | 55000 | 75 |
| 103 | Priyanka | Gandhi | Nodia | 65000 | 45 |
| 104 | Modi | Narendra | New Delhi | 75000 | 69 |
| 105 | Rajni | Kanth | Chennai | 85000 | 65 |
| 106 | Vijay | Setupathi | Chennai | 95000 | 47 |
| 107 | Nayana | Tara | Chennai | 25000 | 40 |
| 108 | Alia | Bhut | Mumbai | 45000 | 31 |
| 109 | Mahesh | Bhut | Mumbai | 15000 | 68 |
| 110 | Sonam | Kapoor | Mumbai | 30000 | 27 |
| 111 | Anil | Kapoor | Mumbai | 38000 | 40 |
| 112 | Raj | Kapoor | Mumbai | 18000 | 78 |
| 113 | Vishnu | Manchu | Hyderabad | 10000 | 40 |
| 114 | Manoj | Manchu | Hyderabad | 12000 | 35 |
| 115 | Mohan | Manchu | Hyderabad | NULL | 70 |
+-----+-----+-----+-----+-----+-----+

```

## Assignments

1. Write a query to fetch employee whose last name is same.

```

SELECT *
FROM
employees
WHERE lname='Gandhi'
      OR lname='Bhut'
      OR lname='Kapoor'

```

```

        OR lname='Manchu';
OUTPUT:

```

eid	fname	lname	city	esal	age
101	Rahul	Gandhi	Wayanad	45000	52
102	Sonia	Gandhi	New Delhi	55000	75
103	Priyanka	Gandhi	Nodia	65000	45
108	Alia	Bhut	Mumbai	45000	31
109	Mahesh	Bhut	Mumbai	15000	68
110	Sonam	Kapoor	Mumbai	30000	27
111	Anil	Kapoor	Mumbai	38000	40
112	Raj	Kapoor	Mumbai	18000	78
113	Vishnu	Manchu	Hyderabad	10000	40
114	Manoj	Manchu	Hyderabad	12000	35
115	Mohan	Manchu	Hyderabad	NULL	70

2. Write a query to fetch whose age is grater then 70.

```

SELECT *
FROM employees
WHERE age>=70;

```

OUTPUT:

eid	fname	lname	city	esal	age
102	Sonia	Gandhi	New Delhi	55000	75
112	Raj	Kapoor	Mumbai	18000	78
115	Mohan	Manchu	Hyderabad	NULL	70

3. Write a query to fetch employee with same city.

```

SELECT *,
employees.fname
FROM
employees
WHERE city='New Delhi'
      OR city='Mumbai'
      OR city='Chennai'
      OR city='Hyderabad';

```

OUTPUT:

eid	fname	lname	city	esal	age	fname
102	Sonia	Gandhi	New Delhi	55000	75	Sonia
104	Modi	Narendra	New Delhi	75000	69	Modi
105	Rajni	Kanth	Chennai	85000	65	Rajni
106	Vijay	Setupathi	Chennai	95000	47	Vijay
107	Nayana	Tara	Chennai	25000	40	Nayana
108	Alia	Bhut	Mumbai	45000	31	Alia
109	Mahesh	Bhut	Mumbai	15000	68	Mahesh
110	Sonam	Kapoor	Mumbai	30000	27	Sonam
111	Anil	Kapoor	Mumbai	38000	40	Anil
112	Raj	Kapoor	Mumbai	18000	78	Raj
113	Vishnu	Manchu	Hyderabad	10000	40	Vishnu
114	Manoj	Manchu	Hyderabad	12000	35	Manoj

115	Mohan	Manchu	Hyderabad	NULL	70	Mohan
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4. Write a query to fetch whose name ends with 'h'.

```
select *
FROM employees
where lname LIKE '%h';
```

OUTPUT:

eid	fname	lname	city	esal	age
105	Rajni	Kanth	Chennai	85000	65

5. Write a query to count employee whose last name ends with 'i'.

```
select count(*) AS 'Last name with i'
FROM employees
where lname LIKE '%i';
```

OUTPUT:

Last name with i
4

6. Write a query to find employee with highest salary.

```
select max(esal) AS 'highest sal'
from employees;
```

OUTPUT:

highest sal
95000

7. Write a query to find employee with lowest salary.

```
select min(esal) AS 'lowest sal'
from employees;
```

OUTPUT:

lowest sal
10000

8. Write a query to change last name of employee whose id is 102.

```
UPDATE employees
SET lname='Sharma'
where eid=102;
```

OUTPUT:

eid	fname	lname	city	esal	age
-----	-------	-------	------	------	-----

101	Rahul	Gandhi	Wayanad	45000	52
102	Sonia	Sharma	New Delhi	55000	75
103	Priyanka	Gandhi	Nodia	65000	45
104	Modi	Narendra	New Delhi	75000	69
105	Rajni	Kanth	Chennai	85000	65
106	Vijay	Setupathi	Chennai	95000	47
107	Nayana	Tara	Chennai	25000	40
108	Alia	Bhut	Mumbai	45000	31
109	Mahesh	Bhut	Mumbai	15000	68
110	Sonam	Kapoor	Mumbai	30000	27
111	Anil	Kapoor	Mumbai	38000	40
112	Raj	Kapoor	Mumbai	18000	78
113	Vishnu	Manchu	Hyderabad	10000	40
114	Manoj	Manchu	Hyderabad	12000	35
115	Mohan	Manchu	Hyderabad	NULL	70
+-----+-----+-----+-----+-----+-----+					

9. Write a query to find name of employee whose name start's with 'A' and city name starts with 'B'.

```
select
employees.fname,
employees.city
from
employees
where fname like 'A%'
and city like 'B%';
```

OUTPUT:  
Empty set (0.00 sec)

10. Write a query to find employee with highest salary in 'Bangalore'.

```
select max(esal) AS 'highest sal'
from employees
where city='Bangalore';
```

OUTPUT:  
+-----+  
| highest sal |  
+-----+  
| NULL |  
+-----+

11. Write a query to find employee who live in 'Hyderabad' with age above 70.

```
select *
from employees
where city='Hyderabad'
AND age>=70;
```

OUTPUT:  
+-----+-----+-----+-----+-----+  
| eid | fname | lname | city | esal | age |  
+-----+-----+-----+-----+-----+  
| 115 | Mohan | Manchu | Hyderabad | NULL | 70 |  
+-----+-----+-----+-----+-----+

12. Write a query to find employee with salary below 50000.

```
select *
from employees
where esal<=50000;
```

OUTPUT:

eid	fname	lname	city	esal	age
101	Rahul	Gandhi	Wayanad	45000	52
107	Nayana	Tara	Chennai	25000	40
108	Alia	Bhut	Mumbai	45000	31
109	Mahesh	Bhut	Mumbai	15000	68
110	Sonam	Kapoor	Mumbai	30000	27
111	Anil	Kapoor	Mumbai	38000	40
112	Raj	Kapoor	Mumbai	18000	78
113	Vishnu	Manchu	Hyderabad	10000	40
114	Manoj	Manchu	Hyderabad	12000	35

13. Write a query to find name of employee with salary range between 20000 to 40000.

```
SELECT fname, esal
FROM employees
WHERE esal BETWEEN 20000 AND 40000;
(or)
```

```
SELECT fname, esal
FROM employees
WHERE esal >= 20000
AND esal <= 40000;
```

OUTPUT:

fname	esal
Nayana	25000
Sonam	30000
Anil	38000
Vishnu	20000

15. Write a query to find employee whose first name third character is 'j'.

```
select *
FROM employees
where fname LIKE '__j%';
```

OUTPUT:

eid	fname	lname	city	esal	age
105	Rajni	Kanth	Chennai	85000	65
106	Vijay	Setupathi	Chennai	95000	47
112	Raj	Kapoor	Mumbai	18000	78

16. Write a query to find employee whose first name third character is 'j' and live in 'Bangalore'.

```
select *
```

```

FROM employees
where fname LIKE '__j%'
      and city='Bangalore';
OUTPUT:
Empty set (0.00 sec)

```

17. Write a query to count employees whose first name third character is 'j'.

```

select count(*) AS 'emp with j'
FROM employees
where fname LIKE '__j%';

```

OUTPUT:

```

+-----+
| emp with j |
+-----+
|          3 |
+-----+

```

18. Write a query to fetch employee with lowest salary and add 10000 to its salary.

```

select eid
from employees
where esal=(SELECT min(esal) from employees);
UPDATE employees
set esal=esal+10000
where eid=113;

```

OUTPUT:

eid	fname	lname	city	esal	age
101	Rahul	Gandhi	Wayanad	45000	52
102	Sonia	Sharma	New Delhi	55000	75
103	Priyanka	Gandhi	Nodia	65000	45
104	Modi	Narendra	New Delhi	75000	69
105	Rajni	Kanth	Chennai	85000	65
106	Vijay	Setupathi	Chennai	95000	47
107	Nayana	Tara	Chennai	25000	40
108	Alia	Bhut	Mumbai	45000	31
109	Mahesh	Bhut	Mumbai	15000	68
110	Sonam	Kapoor	Mumbai	30000	27
111	Anil	Kapoor	Mumbai	38000	40
112	Raj	Kapoor	Mumbai	18000	78
113	Vishnu	Manchu	Hyderabad	20000	40
114	Manoj	Manchu	Hyderabad	12000	35
115	Mohan	Manchu	Hyderabad	NULL	70

19. Write a query to Sort the table by ascending.

```

"with esalary"
select *
from employees
ORDER by esal ;

```

OUTPUT:

eid	fname	lname	city	esal	age
-----	-------	-------	------	------	-----

115	Mohan	Manchu	Hyderabad	NULL	70
114	Manoj	Manchu	Hyderabad	12000	35
109	Mahesh	Bhut	Mumbai	15000	68
112	Raj	Kapoor	Mumbai	18000	78
113	Vishnu	Manchu	Hyderabad	20000	40
107	Nayana	Tara	Chennai	25000	40
110	Sonam	Kapoor	Mumbai	30000	27
111	Anil	Kapoor	Mumbai	38000	40
101	Rahul	Gandhi	Wayanad	45000	52
108	Alia	Bhut	Mumbai	45000	31
102	Sonia	Sharma	New Delhi	55000	75
103	Priyanka	Gandhi	Nodia	65000	45
104	Modi	Narendra	New Delhi	75000	69
105	Rajni	Kanth	Chennai	85000	65
106	Vijay	Setuppathi	Chennai	95000	47

20. Write a query to Sort the table by descending.

```
select *
from employees
ORDER by esal DESC;
OUTPUT:
```

106	Vijay	Setuppathi	Chennai	95000	47
105	Rajni	Kanth	Chennai	85000	65
104	Modi	Narendra	New Delhi	75000	69
103	Priyanka	Gandhi	Nodia	65000	45
102	Sonia	Sharma	New Delhi	55000	75
101	Rahul	Gandhi	Wayanad	45000	52
108	Alia	Bhut	Mumbai	45000	31
111	Anil	Kapoor	Mumbai	38000	40
110	Sonam	Kapoor	Mumbai	30000	27
107	Nayana	Tara	Chennai	25000	40
113	Vishnu	Manchu	Hyderabad	20000	40
112	Raj	Kapoor	Mumbai	18000	78
109	Mahesh	Bhut	Mumbai	15000	68
114	Manoj	Manchu	Hyderabad	12000	35
115	Mohan	Manchu	Hyderabad	NULL	70

21. Write a query to show employee whose name's last third word is 'j'  
and salary is more then 30000.

```
select *
FROM employees
where fname LIKE '___j%'
and esal>30000;
```

OUTPUT:

105	Rajni	Kanth	Chennai	85000	65
106	Vijay	Setuppathi	Chennai	95000	47

22. Write a query to show all employee who live in 'Bangalore' and 'Wayanad'.

```
select *
from employees
where city="Bangalore"
       or city="Wayanad";
```

OUTPUT:

eid	fname	lname	city	esal	age
101	Rahul	Gandhi	Wayanad	45000	52

23. Write a query to fetch employee with first name count is 5.

```
select *
from employees
where LENGTH(fname)=5;
```

OUTPUT:

eid	fname	lname	city	esal	age
101	Rahul	Gandhi	Wayanad	45000	52
102	Sonia	Sharma	New Delhi	55000	75
105	Rajni	Kanth	Chennai	85000	65
106	Vijay	Setupathi	Chennai	95000	47
110	Sonam	Kapoor	Mumbai	30000	27
114	Manoj	Manchu	Hyderabad	12000	35
115	Mohan	Manchu	Hyderabad	NULL	70

24. Write a query to group by employee with their age.

```
select age, fname
from employees
group by age, fname;
```

OUTPUT:

age	fname
52	Rahul
75	Sonia
45	Priyanka
69	Modi
65	Rajni
47	Vijay
40	Nayana
31	Alia
68	Mahesh
27	Sonam
40	Anil
78	Raj
40	Vishnu
35	Manoj
70	Mohan



26. Write a query to find employee with null salary.

```
select *  
from employees  
where esal is NULL;
```

OUTPUT:

+	+	+	+	+	+	+	+
	eid		fname		lname		city
					esal		age
	115		Mohan		Manchu		Hyderabad
					NULL		70
+	+	+	+	+	+	+	+