

SQL ASSIGNMENTS

Create a database worker that should contain **first name, last name email, department, salary, Join Date** with 50 employees.

WORKER TABLE:

```
mysql> select * from worker;
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
1	suriya	varma	sur@gmail.com	hr	16000	2014-02-20 00:00:00
3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00
4	vishav	rath	vojsa@gmail.com	hr	35000	2015-02-20 00:00:00
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
6	asif	dayalan	asif@gmail.com	hr	12000	2010-02-20 00:00:00
7	avinash	sabeer	sabeer@mail.com	admin	23000	2012-02-20 00:00:00
8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
10	vinaik	varma	vinaik@gmail.com	hr	16000	2014-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
12	charanjeev	xavier	xavier@gmail.com	hr	15000	2010-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
14	sivan	prabu	sovam@gmail.com	developer	45000	2011-02-20 00:00:00
15	tushyuanka	dayalan	tisjuamla@gmail.com	hr	12000	2010-02-20 00:00:00
16	zaid	mushtaq	azaod@gmail.com	admin	23000	2012-02-20 00:00:00
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
18	malik	mushtaq	yousva@gmail.com	manager	24000	2014-02-20 00:00:00
19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00
20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00
21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00
22	unmukat	sharma	sharma@gmail.com	hr	35000	2015-02-20 00:00:00
24	syed	shah	shah@gmail.com	hr	12000	2010-02-20 00:00:00
25	anmol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00
26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00
28	jos	jes	josjes@guvi.com	developer	30000	2010-03-21 00:00:00
29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00

Task-1

1. Write an SQL query to fetch “FIRST_NAME” from the Worker table using the alias name as <WORKER_NAME>.

```
mysql> select FIRST_NAME as WORKER_NAME from workers;
+-----+
| WORKER_NAME |
+-----+
| nithil      |
| goyal       |
| niharika    |
| vishal      |
| amitabh     |
| vivek       |
| vipul       |
| satish      |
| geetika     |
| ragu        |
| vinoth      |
| joseph      |
| jenil       |
| vikram      |
| deena       |
| adam        |
| jovin       |
| yousua      |
| suriya      |
| Rajat       |
| mohd        |
| vishav      |
| waseem      |
```

2. Write an SQL query to fetch unique values of DEPARTMENT from the Worker table.

```
mysql> select distinct DEPARTMENT from workers;
+-----+
| DEPARTMENT |
+-----+
| hr          |
| admin       |
| developer   |
| research    |
| manager     |
+-----+
5 rows in set (0.00 sec)
```

3. Write an SQL query to show the last 5 records from a table.

```
mysql> (select * from workers order by FIRST_NAME DESC LIMIT 5) order by FIRST_NAME ASC;
+-----+-----+-----+-----+-----+-----+
| FIRST_NAME | LAST_NAME | EMAIL                | DEPARTMENT | SALARY | JOIN_DATE          |
+-----+-----+-----+-----+-----+-----+
| vishav     | rath      | vojasa@gmail.com     | hr          | 35000  | 2015-02-20 00:00:00 |
| vivek      | Bhati     | vivek@gmail.com      | hr          | 13000  | 2010-02-20 00:00:00 |
| waseem     | prabu     | wassem@gmail.com     | developer   | 45000  | 2011-02-20 00:00:00 |
| yousua     | jesil     | yousua@gmail.com     | manager     | 34000  | 2014-02-20 00:00:00 |
| zaid       | mushtaq   | azaod@gmail.com      | admin       | 23000  | 2012-02-20 00:00:00 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Task-2

1. Write an SQL query to print the first three characters of FIRST_NAME from Worker

```
mysql> select substring(FIRST_NAME,1,3) from workers;
+-----+
| substring(FIRST_NAME,1,3) |
+-----+
| nit                        |
| goy                        |
| nih                        |
| vis                        |
| ami                        |
| viv                        |
| vip                        |
| sat                        |
| gee                        |
| rag                        |
| vin                        |
| jos                        |
| jen                        |
| vik                        |
| dee                        |
| ada                        |
| jov                        |
+-----+
```

2. Write an SQL query to find the position of the alphabet ('a') in the first name

```
mysql> select INSTR(FIRST_NAME, BINARY'a') from workers;
```

INSTR(FIRST_NAME, BINARY'a')
0
4
4
5
1
0
0
2
7
2
0
0
0
5
5
1
0
6

3. Write an SQL query to print the name of employees who have the highest salary in each department.

query:

select DEPARTMENT, FIRST_NAME, SALARY from workers where (DEPARTMENT,SALARY) IN (SELECT DEPARTMENT, MAX(SALARY) FROM workers GROUP BY DEPARTMENT)

```
mysql> select DEPARTMENT, FIRST_NAME, SALARY from workers where (DEPARTMENT,SALARY) IN (SELECT DEPARTMENT, MAX(SALARY) FROM workers GROUP BY DEPARTMENT);
```

DEPARTMENT	FIRST_NAME	SALARY
hr	vishal	45000
developer	amitabh	55000
research	satish	455000
manager	geetika	34000
hr	jenil	45000
developer	vikram	55000
research	jovin	455000
manager	yousva	34000
admin	Rajat	30000
admin	anil	30000
admin	abhinav	30000

11 rows in set (0.00 sec)

Task-3

1. Write an SQL query to print the FIRST_NAME from the Worker table after removing white spaces from the right side.

```
mysql> select RTRIM(FIRST_NAME) from workers;
```

RTRIM(FIRST_NAME)
nithil
goyal
niharika
vishal
amitabh
vivek
vipul
satish
geetika
ragu
vinoth
joseph
jenil
vikram
deena

2. Write an SQL query that fetches the unique values of DEPARTMENT from the Worker table and prints its length.

```
mysql> select distinct DEPARTMENT, length(DEPARTMENT) from worker;
```

DEPARTMENT	length(DEPARTMENT)
hr	2
developer	9
admin	5
research	8
manager	7

```
5 rows in set (0.00 sec)
```

3. Write an SQL query to fetch nth max salaries from a table.

```
mysql> Select *  
-> FROM worker w1  
-> WHERE (1) = (  
-> SELECT COUNT(DISTINCT(w2.SALARY))  
-> FROM worker w2  
-> WHERE w2.SALARY > w1.SALARY);
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
14	sivan	prabu	sovam@gmail.com	developer	45000	2011-02-20 00:00:00
23	rahul	raj	raj@gmail.com	developer	45000	2011-02-20 00:00:00

- Write an SQL query to print all Worker details from the Worker table order FIRST_NAME Ascending and DEPARTMENT Descending.

```
mysql> select * from worker order by FIRST_NAME ASC,DEPARTMENT DESC;
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00
20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
25	anmol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00
21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00
6	asif	dayalan	asif@gmail.com	hr	12000	2010-02-20 00:00:00
7	avinash	sabeer	sabeer@gmail.com	admin	23000	2012-02-20 00:00:00
12	charanjeev	xavier	xavier@gmail.com	hr	15000	2010-02-20 00:00:00
18	malik	mushtaq	yousva@gmail.com	manager	24000	2014-02-20 00:00:00
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00
26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00
8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
23	rahul	raj	raj@gmail.com	developer	45000	2011-02-20 00:00:00
2	Rajat	kumar	Raj@gmail.com	admin	30000	2012-02-20 00:00:00
14	sivan	prabu	sovam@gmail.com	developer	45000	2011-02-20 00:00:00
19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00
1	suriya	varma	sur@gmail.com	hr	16000	2014-02-20 00:00:00
24	syed	shah	shah@gmail.com	hr	12000	2010-02-20 00:00:00
15	tushyuanka	dayalan	tisjuamla@gmail.com	hr	12000	2010-02-20 00:00:00
22	unmukat	sharma	sharma@gmail.com	hr	35000	2015-02-20 00:00:00
10	vinaik	varma	vinaik@gmail.com	hr	16000	2014-02-20 00:00:00
4	vishav	rath	vojasa@gmail.com	hr	35000	2015-02-20 00:00:00
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
16	zaid	mushtaq	azaod@gmail.com	admin	23000	2012-02-20 00:00:00

```
27 rows in set (0.06 sec)
```

- Write an SQL query to fetch the names of workers who earn the highest salary.

```
mysql> select FIRST_NAME,SALARY from worker where SALARY = (SELECT MAX(SALARY) FROM worker);
```

FIRST_NAME	SALARY
nakul	255000
mayank	255000
moshin	255000

```
3 rows in set (0.00 sec)
```


Task-5

1. Write an SQL query to print details of workers excluding first names, “Ramesh” and “Santhosh” from the Worker table.

```
mysql> select * from worker where FIRST_NAME not in ('Ramesh','Santhosh');
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
1	suriya	varma	sur@gmail.com	hr	16000	2014-02-20 00:00:00
2	Rajat	kumar	Raj@gmail.com	admin	30000	2012-02-20 00:00:00
3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00
4	vishav	rath	vojsa@gmail.com	hr	35000	2015-02-20 00:00:00
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
6	asif	dayalan	asif@gmail.com	hr	12000	2010-02-20 00:00:00
7	avinash	sabeer	sabeer@mail.com	admin	23000	2012-02-20 00:00:00
8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
10	vinaik	varma	vinaik@gmail.com	hr	16000	2014-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
12	charanjeev	xavier	xavier@gmail.com	hr	15000	2010-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
14	sivan	prabu	sovam@gmail.com	developer	45000	2011-02-20 00:00:00
15	tushyuanka	dayalan	tisjuamla@gmail.com	hr	12000	2010-02-20 00:00:00
16	zaid	mushtaq	azaod@gmail.com	admin	23000	2012-02-20 00:00:00
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
18	malik	mushtaq	yousva@gmail.com	manager	24000	2014-02-20 00:00:00
19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00
20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00
21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00
22	unmukat	sharma	sharma@gmail.com	hr	35000	2015-02-20 00:00:00
23	rahul	raj	raj@gmail.com	developer	45000	2011-02-20 00:00:00
24	syed	shah	shah@gmail.com	hr	12000	2010-02-20 00:00:00
25	anmol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00
26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00

2. Write an SQL query to print details of the Workers whose FIRST_NAME ends with 'h' and contains six alphabets.

```
mysql> select * from worker where FIRST_NAME LIKE '____h';
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00

2 rows in set (0.00 sec)

3. Write a query to validate Email of Employee (email should have first name last name and guvi.com example (first name=Kamal last name= raja and the mail id should be kamalraja@guvi.com).

```
mysql> select EMAIL from worker work where EMAIL LIKE lower(CONCAT(work.FIRST_NAME, work.LAST_NAME, '@', 'guvi.com'));
```

EMAIL
josjes@guvi.com

Task-6

1. Write an SQL query to print details of the Workers who have joined in March '2021.

```
mysql> select * from worker where JOIN_DATE LIKE '2021-03%';
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00

```
1 row in set (0.00 sec)
```

2. Write an SQL query to fetch duplicates that have matching data in some fields of a table.

```
mysql> select FIRST_NAME,DEPARTMENT, COUNT(*) FROM worker group by FIRST_NAME,DEPARTMENT HAVING COUNT(*)>1;
```

FIRST_NAME	DEPARTMENT	COUNT(*)
Rajat	admin	2

```
1 row in set (0.00 sec)
```

3. How to remove duplicate rows from the Employees table.

```
mysql> DELETE w1 from worker w1 inner join worker w2 where w1.id < w2.id AND w1.EMAIL = w2.EMAIL;
```

Query OK, 2 rows affected (0.12 sec)

Task-7

1. Write an SQL query to show only odd rows from a table.

```
mysql> select * from worker where MOD(ID,2) <> 0 ;
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
1	suriya	varma	sur@gmail.com	hr	16000	2014-02-20 00:00:00
3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
7	avinash	sabeer	sabeer@mail.com	admin	23000	2012-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
15	tushyanka	dayalan	tisjuamla@gmail.com	hr	12000	2010-02-20 00:00:00
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00
21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00
25	anmol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00
29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00

```
14 rows in set (0.00 sec)
```

2. Write an SQL query to clone a new table from another table.

```
mysql> CREATE TABLE dupworker LIKE worker;
Query OK, 0 rows affected (1.15 sec)

mysql> select * from dupworker;
Empty set (0.01 sec)

mysql> insert into dupworker select * from worker;
Query OK, 28 rows affected (0.11 sec)
Records: 28 Duplicates: 0 Warnings: 0
```

```
mysql> select * from dupworker;
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
1	suriya	varma	sur@gmail.com	hr	16000	2014-02-20 00:00:00
3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00
4	vishav	rath	vojsa@gmail.com	hr	35000	2015-02-20 00:00:00
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
6	asif	dayalan	asif@gmail.com	hr	12000	2010-02-20 00:00:00
7	avinash	sabeer	sabeer@mail.com	admin	23000	2012-02-20 00:00:00
8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
10	vinaik	varma	vinaik@gmail.com	hr	16000	2014-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
12	charanjeev	xavier	xavier@gmail.com	hr	15000	2010-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
14	sivan	prabu	sovam@gmail.com	developer	45000	2011-02-20 00:00:00
15	tushyuanka	dayalan	tisjuamla@gmail.com	hr	12000	2010-02-20 00:00:00
16	zaid	mushtaq	azaod@gmail.com	admin	23000	2012-02-20 00:00:00
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
18	malik	mushtaq	yousva@gmail.com	manager	24000	2014-02-20 00:00:00
19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00
20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00
21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00
22	unmukat	sharma	sharma@gmail.com	hr	35000	2015-02-20 00:00:00
24	syed	shah	shah@gmail.com	hr	12000	2010-02-20 00:00:00
25	anmol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00
26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00
28	jos	jes	josjes@guvi.com	developer	30000	2010-03-21 00:00:00
29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00
30	Rajat	kumar	Raj@gmail.com	admin	30000	2012-02-20 00:00:00

Task-8

1. Write an SQL query to fetch intersecting records of two tables.

```
mysql> SELECT * FROM worker w1 inner join dupworker dw on w1.ID = dw.ID;
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE	ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
1	suriya	varna	sur@gmail.com	hr	16000	2014-02-20 00:00:00	1	suriya	varna	sur@gmail.com	hr	16000	2014-02-20 00:00:00
3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00	3	mohd	xavier	mohd@gmail.com	hr	15000	2010-02-20 00:00:00
4	vishav	rath	vojsa@gmail.com	hr	35000	2015-02-20 00:00:00	4	vishav	rath	vojsa@gmail.com	hr	35000	2015-02-20 00:00:00
5	waseen	prabu	wassen@gmail.com	developer	45000	2011-02-20 00:00:00	5	waseen	prabu	wassen@gmail.com	developer	45000	2011-02-20 00:00:00
6	asif	dayalan	asif@gmail.com	hr	12000	2010-02-20 00:00:00	6	asif	dayalan	asif@gmail.com	hr	12000	2010-02-20 00:00:00
7	avinash	sabeer	sabeer@gmail.com	admin	23000	2012-02-20 00:00:00	7	avinash	sabeer	sabeer@gmail.com	admin	23000	2012-02-20 00:00:00
8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00	8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00	9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00
10	vinaik	varna	vinaik@gmail.com	hr	16000	2014-02-20 00:00:00	10	vinaik	varna	vinaik@gmail.com	hr	16000	2014-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00	11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
12	charanjev	xavier	xavier@gmail.com	hr	15000	2010-02-20 00:00:00	12	charanjev	xavier	xavier@gmail.com	hr	15000	2010-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00	13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
14	sivan	prabu	sovan@gmail.com	developer	45000	2011-02-20 00:00:00	14	sivan	prabu	sovan@gmail.com	developer	45000	2011-02-20 00:00:00
15	tushyanka	dayalan	tisjuanla@gmail.com	hr	12000	2010-02-20 00:00:00	15	tushyanka	dayalan	tisjuanla@gmail.com	hr	12000	2010-02-20 00:00:00
16	zaid	mushtaq	azaod@gmail.com	admin	23000	2012-02-20 00:00:00	16	zaid	mushtaq	azaod@gmail.com	admin	23000	2012-02-20 00:00:00
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00	17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
18	malik	mushtaq	yousva@gmail.com	manager	24000	2014-02-20 00:00:00	18	malik	mushtaq	yousva@gmail.com	manager	24000	2014-02-20 00:00:00
19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00	19	suraj	raina	raina@gmail.com	hr	16000	2014-02-20 00:00:00
20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00	20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00
21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00	21	anubhav	peer	peer@gmail.com	hr	15000	2010-02-20 00:00:00
22	unmukat	sharna	sharna@gmail.com	hr	35000	2015-02-20 00:00:00	22	unmukat	sharna	sharna@gmail.com	hr	35000	2015-02-20 00:00:00
24	syed	shah	shah@gmail.com	hr	12000	2010-02-20 00:00:00	24	syed	shah	shah@gmail.com	hr	12000	2010-02-20 00:00:00
25	annol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00	25	annol	bhat	bhat@gmail.com	admin	23000	2012-02-20 00:00:00
26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00	26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00	27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00
28	jos	jes	josjes@guvi.com	developer	30000	2010-03-21 00:00:00	28	jos	jes	josjes@guvi.com	developer	30000	2010-03-21 00:00:00
29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00	29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00
30	Rajat	kumar	Raj@gmail.com	admin	30000	2012-02-20 00:00:00	30	Rajat	kumar	Raj@gmail.com	admin	30000	2012-02-20 00:00:00

2. Write an SQL query to show records from one table that another table does not have.

```
mysql> select * from worker where not exists ( select * from dupworker where worker.ID = dupworker.ID);
Empty set (0.01 sec)
```


Task-9

1. Write an SQL query to show the top n (say 15) records of a table.

```
mysql> select * from worker order by SALARY DESC LIMIT 15;
```

ID	FIRST_NAME	LAST_NAME	EMAIL	DEPARTMENT	SALARY	JOIN_DATE
17	mayank	koul	mauank@gmail.com	research	255000	2013-02-20 00:00:00
8	nakul	joshuva	nakul@gmail.com	research	255000	2013-02-20 00:00:00
26	moshin	kahan	khan@gmail.com	research	255000	2013-02-20 00:00:00
5	waseem	prabu	wassem@gmail.com	developer	45000	2011-02-20 00:00:00
14	sivan	prabu	sovam@gmail.com	developer	45000	2011-02-20 00:00:00
29	nit	khan	nithkan@guvi.com	developer	40000	2021-03-05 00:00:00
4	vishav	rath	vojasa@gmail.com	hr	35000	2015-02-20 00:00:00
22	unmukat	sharma	sharma@gmail.com	hr	35000	2015-02-20 00:00:00
13	pyuish	rath	ratj@gmail.com	hr	35000	2015-02-20 00:00:00
11	anil	kumar	anil@gmail.com	admin	30000	2012-02-20 00:00:00
20	abhinav	goswami	goswami@gmail.com	admin	30000	2012-02-20 00:00:00
28	jos	jes	josjes@guvi.com	developer	30000	2010-03-21 00:00:00
30	Rajat	kumar	Raj@gmail.com	admin	30000	2012-02-20 00:00:00
27	aadil	rehman	rehman@gmail.com	manager	24000	2014-02-20 00:00:00
9	parush	jesil	parush@gmail.com	manager	24000	2014-02-20 00:00:00

```
15 rows in set (0.00 sec)
```

2. Write an SQL query to determine the nth (say n=10) highest salary from a table.

```
mysql> select SALARY from worker ORDER BY SALARY DESC LIMIT 9,1;
```

SALARY
30000

```
1 row in set (0.00 sec)
```

Task-10

1. Write an SQL query to determine the 8th highest salary without using TOP or LIMIT methods.

```
mysql> select distinct SALARY from worker w1 where 7 = (select count(distinct(w2.SALARY)) FROM worker w2 where w2.SALARY >= w1.SALARY);
```

SALARY
23000

2. Write an SQL query to fetch the list of employees with the same salary.

```
mysql> SELECT DISTINCT w.FIRST_NAME,w.SALARY FROM worker w, worker w1  
-> where w.SALARY = w1.SALARY AND w.ID != w1.ID;
```

FIRST_NAME	SALARY
suraj	16000
vinaik	16000
anubhav	15000
charanjeev	15000
unmukat	35000
pyuish	35000
sivan	45000
syed	12000
tushyuanka	12000
anmol	23000
zaid	23000
moshin	255000
mayank	255000
aadil	24000
malik	24000
suriya	16000
Rajat	30000
jos	30000
abhinav	30000
mohd	15000
vishav	35000
waseem	45000
asif	12000
avinash	23000
nakul	255000
parush	24000
anil	30000