

SQL Assignment

Creating Database & Table:

```
CREATE database WorkerDB;
```

```
show databases;
```

```
use WorkerDB;
```

```
CREATE table worker (
```

```
first_name varchar(20) not null,
```

```
last_name varchar(20) not null,
```

```
email varchar(50),
```

```
dept varchar(20),
```

```
salary int,
```

```
join_date date
```

```
);
```

```
INSERT INTO worker
```

```
(first_name, last_name, email, dept, salary, join_date) values
```

```
('Nikhil','Hariharan','Nikhil.Hariharan@xyz.com','AI/ML',1000000,'2021-08-01');
```


Task 2:

40

41 • `SELECT SUBSTRING(first_name,1,3) FROM worker;`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

SUBSTRING(first_name,1,3)
Nik
Sub
Arj
Ank
Sea
Adi
Aja
Vik
Anu
Ami
Man

Result 7

41

42 • `SELECT POSITION("a" IN first_name) FROM worker;`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

POSITION("a" IN first_name)
0
4
1
1
3
1
1
5
1
1
7

Result 8

42

43 • `SELECT dept, first_name, last_name AS Employee_name, salary FROM worker a`

44 `WHERE salary = (SELECT MAX(salary) FROM worker WHERE dept = a.dept);`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

dept	first_name	Employee_name	salary
HR	Anushka	Gera	1000000
Marketing	Amit	Saxena	1400000
Finance	Manoj	Sharma	1500000
BI	Ashish	Choudhary	1500000
AI/ML	Sanjay	Kapoor	2000000
Database	Gokul	Swamy	1800000

Task 3:

44

45 • `SELECT RTRIM(first_name) FROM worker;`

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	RTRIM(first_name)			
▶	Nikhil			
	Subash			
	Arjun			
	Ankit			
	Sean			
	Aditi			
	Ajay			
	Vikram			
	Anushka			
	Amit			
	Manoj			

45

46 • `SELECT DISTINCT(LENGTH(dept)) FROM worker;`

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	(LENGTH(dept))			
▶	5			
	2			
	8			
	7			
	9			

46

47 • `SELECT salary FROM worker ORDER BY salary DESC LIMIT 0, 3;`

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
	salary				
▶	2000000				
	1800000				
	1500000				

Task 4:

47

48 • `SELECT REPLACE(first_name,'a','A') AS "REPLACE NAME" FROM worker;`

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	REPLACE NAME
▶	Nikhil
	SubAsh
	Arjun
	Ankit
	SeAn
	Aditi
	AjAy
	VikrAm
	AnushkA
	Amit
	MAAni

49 • `SELECT * FROM worker e ORDER BY e.first_name ASC, e.dept DESC;`

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)




	first_name	last_name	email	dept	salary	join_date
▶	Aditi	Kapoor	Aditi.Kapoor@xyz.com	Finance	1000000	2019-09-01
	Ajay	Rathore	Ajay.Rathore@xyz.com	Marketing	800000	2020-11-01
	Amit	Saxena	Amit.Saxena@xyz.com	Marketing	1400000	2021-08-01
	Amit	Pathak	Amit.Pathak@xyz.com	AI/ML	1500000	2017-07-01
	Anil	Hegde	Anil.Hegde@xyz.com	HR	900000	2020-12-01
	Ankit	Sharma	Ankit.Sharma@xyz.com	AI/ML	1200000	2021-01-01
	Ankur	Patil	Ankur.Patil@xyz.com	HR	900000	2021-01-01
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01
	Arjun	Singh	Arjun.Singh@xyz.com	Database	900000	2020-05-01
	Ashish	Choudhary	Ashish.Choudhary@xyz.com	BI	1500000	2019-05-01
	Atul	Kulkarni	Atul.Kulkarni@xyz.com	Marketing	1200000	2019-06-01

Task 5:

49

50 • `SELECT * FROM worker WHERE first_name NOT IN ('Ramesh', 'Santosh');`

<

Result Grid  Filter Rows: Export:  Wrap Cell Content: 




	first_name	last_name	email	dept	salary	join_date
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01
	Subash	Venkat	Subash.Venkat@xyz.com	HR	800000	2019-04-01
	Arjun	Singh	Arjun.Singh@xyz.com	Database	900000	2020-05-01
	Ankit	Sharma	Ankit.Sharma@xyz.com	AI/ML	1200000	2021-01-01
	Sean	Johnson	Sean.Johnson@xyz.com	BI	1200000	2021-01-01
	Aditi	Kapoor	Aditi.Kapoor@xyz.com	Finance	1000000	2019-09-01
	Ajay	Rathore	Ajay.Rathore@xyz.com	Marketing	800000	2020-11-01
	Vikram	Kumar	Vikram.Kumar@xyz.com	BI	1000000	2018-04-01
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01
	Amit	Saxena	Amit.Saxena@xyz.com	Marketing	1400000	2021-08-01
	Manoj	Sharma	Manoj.Sharma@xyz.com	Finance	1500000	2017-02-01

worker 27 ▾

50

51 • `SELECT * FROM worker WHERE first_name like '____h';`

<




Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	first_name	last_name	email	dept	salary	join_date
▶	Subash	Venkat	Subash.Venkat@xyz.com	HR	800000	2019-04-01
	Ashish	Choudhary	Ashish.Choudhary@xyz.com	BI	1500000	2019-05-01
	Manish	Pandey	Manish.Pandey@xyz.com	BI	1300000	2018-06-01

51

52 • `SELECT * FROM worker WHERE email LIKE '%@xyz.com';`

<

Result Grid  Filter Rows: Export:  Wrap Cell Content: 

	first_name	last_name	email	dept	salary	join_date
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01
	Subash	Venkat	Subash.Venkat@xyz.com	HR	800000	2019-04-01
	Arjun	Singh	Arjun.Singh@xyz.com	Database	900000	2020-05-01
	Ankit	Sharma	Ankit.Sharma@xyz.com	AI/ML	1200000	2021-01-01
	Sean	Johnson	Sean.Johnson@xyz.com	BI	1200000	2021-01-01
	Aditi	Kapoor	Aditi.Kapoor@xyz.com	Finance	1000000	2019-09-01
	Ajay	Rathore	Ajay.Rathore@xyz.com	Marketing	800000	2020-11-01
	Vikram	Kumar	Vikram.Kumar@xyz.com	BI	1000000	2018-04-01
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01
	Amit	Saxena	Amit.Saxena@xyz.com	Marketing	1400000	2021-08-01
	Manoj	Sharma	Manoj.Sharma@xyz.com	Finance	1500000	2017-02-01





worker 31 ×

Task 6:

52

53 • `SELECT * FROM Worker WHERE year(join_date) = 2021 AND month(join_date) = 8;`

<

Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	first_name	last_name	email	dept	salary	join_date
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01
	Amit	Saxena	Amit.Saxena@xyz.com	Marketing	1400000	2021-08-01

Task 7:

```

54 • SELECT * FROM (SELECT *, @rowNumber := @rowNumber + 1 rn
55 FROM worker JOIN (SELECT @rowNumber:= 0) r) t
56 WHERE rn % 2 = 1;

```

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

	first_name	last_name	email	dept	salary	join_date	@rowNumber:= 0	rn
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01	0	1
	Arjun	Singh	Arjun.Singh@xyz.com	Database	900000	2020-05-01	0	3
	Sean	Johnson	Sean.Johnson@xyz.com	BI	1200000	2021-01-01	0	5
	Ajay	Rathore	Ajay.Rathore@xyz.com	Marketing	800000	2020-11-01	0	7
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01	0	9
	Manoj	Sharma	Manoj.Sharma@xyz.com	Finance	1500000	2017-02-01	0	11
	Atul	Kulkarni	Atul.Kulkarni@xyz.com	Marketing	1200000	2019-06-01	0	13
	Anil	Hegde	Anil.Hegde@xyz.com	HR	900000	2020-12-01	0	15
	Ankur	Patil	Ankur.Patil@xyz.com	HR	900000	2021-01-01	0	17
	Sanjay	Kapoor	Sanjay.Kapoor@xyz.com	AI/ML	2000000	2016-12-01	0	19

```

56
57 • CREATE TABLE worker_dup LIKE worker;
58 • SELECT * FROM worker_dup;

```

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

	first_name	last_name	email	dept	salary	join_date
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Task 9:

59 • `SELECT * FROM worker LIMIT 15;`

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

	first_name	last_name	email	dept	salary	join_date
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01
	Subash	Venkat	Subash.Venkat@xyz.com	HR	800000	2019-04-01
	Arjun	Singh	Arjun.Singh@xyz.com	Database	900000	2020-05-01
	Ankit	Sharma	Ankit.Sharma@xyz.com	AI/ML	1200000	2021-01-01
	Sean	Johnson	Sean.Johnson@xyz.com	BI	1200000	2021-01-01
	Aditi	Kapoor	Aditi.Kapoor@xyz.com	Finance	1000000	2019-09-01
	Ajay	Rathore	Ajay.Rathore@xyz.com	Marketing	800000	2020-11-01
	Vikram	Kumar	Vikram.Kumar@xyz.com	BI	1000000	2018-04-01
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01
	Amit	Saxena	Amit.Saxena@xyz.com	Marketing	1400000	2021-08-01
	Manoj	Sharma	Manoj.Sharma@xyz.com	Finance	1500000	2017-02-01

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60

61 • `SELECT * FROM worker ORDER BY salary DESC LIMIT 11, 1; -- using n-1. For 1st highest use 1-1=0. For 2nd highest use 2-1=1`

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




	first_name	last_name	email	dept	salary	join_date
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01

Task 10:

60

```
61 • SELECT * FROM worker e WHERE 8 = (SELECT COUNT(DISTINCT salary) FROM worker p WHERE e.salary <= p.salary);
```

<




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

	first_name	last_name	email	dept	salary	join_date
▶	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01
	Aditi	Kapoor	Aditi.Kapoor@xyz.com	Finance	1000000	2019-09-01
	Vikram	Kumar	Vikram.Kumar@xyz.com	BI	1000000	2018-04-01
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01

61

```
62 • SELECT * FROM worker WHERE salary IN(  
63 SELECT salary FROM worker e WHERE worker.first_name <> e.first_name) ORDER BY salary;
```

<

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

	first_name	last_name	email	dept	salary	join_date
▶	Ajay	Rathore	Ajay.Rathore@xyz.com	Marketing	800000	2020-11-01
	Subash	Venkat	Subash.Venkat@xyz.com	HR	800000	2019-04-01
	Anil	Hegde	Anil.Hegde@xyz.com	HR	900000	2020-12-01
	Ankur	Patil	Ankur.Patil@xyz.com	HR	900000	2021-01-01
	Arjun	Singh	Arjun.Singh@xyz.com	Database	900000	2020-05-01
	Aditi	Kapoor	Aditi.Kapoor@xyz.com	Finance	1000000	2019-09-01
	Vikram	Kumar	Vikram.Kumar@xyz.com	BI	1000000	2018-04-01
	Anushka	Gera	Anushka.Gera@xyz.com	HR	1000000	2019-12-01
	Nikhil	Hariharan	Nikhil.Hariharan@xyz.com	AI/ML	1000000	2021-08-01
	Sean	Johnson	Sean.Johnson@xyz.com	BI	1200000	2021-01-01
	Atul	Kulkarni	Atul.Kulkarni@xyz.com	Marketing	1200000	2019-06-01