

1. Write a query to display the names (first_name, last_name) using alias name "First Name", "Last Name"

SELECT FIRST_NAME AS 'First Name', LAST_NAME AS 'Last Name' FROM employees ;

The screenshot shows the phpMyAdmin interface with the SQL query results for the employees table. The query is: `SELECT FIRST_NAME AS 'First Name', LAST_NAME AS 'Last Name' FROM employees ;`

	First Name	Last Name
<input type="checkbox"/>	Ellen	Abel
<input type="checkbox"/>	Sundar	Ande
<input type="checkbox"/>	Mozhe	Atkinson
<input type="checkbox"/>	David	Austin
<input type="checkbox"/>	Hermann	Baer
<input type="checkbox"/>	Shelli	Baida
<input type="checkbox"/>	Amit	Banda
<input type="checkbox"/>	Elizabeth	Bates
<input type="checkbox"/>	Sarah	Bell
<input type="checkbox"/>	David	Bernstein
<input type="checkbox"/>	Laura	Bissot
<input type="checkbox"/>	Harrison	Bloom

2. Write a query to get unique department ID from employee table.

SELECT DISTINCT(DEPARTMENT_ID) FROM employees;

New

countries

departments

employees

jobs

job_history

locations

regions

information_schema

mysql

my_database

performance_schema

phpmyadmin

test

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: No

Extra options

←

↑

→

DEPARTMENT_ID

<input type="checkbox"/>				0
<input type="checkbox"/>				10
<input type="checkbox"/>				20
<input type="checkbox"/>				30
<input type="checkbox"/>				40
<input type="checkbox"/>				50
<input type="checkbox"/>				60
<input type="checkbox"/>				70
<input type="checkbox"/>				80
<input type="checkbox"/>				90
<input type="checkbox"/>				100
<input type="checkbox"/>				110

Console

3. Write a query to get all employee details from the employee table order by first name, descending.

SELECT * FROM employees ORDER BY FIRST_NAME DESC ;

The screenshot shows the phpMyAdmin interface with the SQL query results for all employee details ordered by first name descending. The query is: `SELECT * FROM employees ORDER BY FIRST_NAME DESC ;`

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION
<input type="checkbox"/>	180	Winston	Taylor	WTAYLOR	650.507.9876	1987-09-05	SH_CLERK	3200.00
<input type="checkbox"/>	206	William	Gietz	WGIEZT	515.123.8181	1987-10-01	AC_ACCOUNT	8300.00
<input type="checkbox"/>	171	William	Smith	WSMITH	011.44.1343.629268	1987-08-27	SA_REP	7400.00
<input type="checkbox"/>	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	2800.00
<input type="checkbox"/>	106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00
<input type="checkbox"/>	141	Trenna	Rajs	TRAJS	650.121.8009	1987-07-28	ST_CLERK	3500.00
<input type="checkbox"/>	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	2100.00
<input type="checkbox"/>	190	Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	2900.00
<input type="checkbox"/>	170	Tavler	Fox	TFOX	011.44.1343.729268	1987-08-26	SA_REP	9600.00

4. Write a query to get the names (first_name, last_name), salary, PF of all the employees (PF is calculated as 15% of salary).

SELECT FIRST_NAME , LAST_NAME ,SALARY,(SALARY* 0.15) AS PF FROM employees;

	FIRST_NAME	LAST_NAME	SALARY	PF
<input type="checkbox"/>	Steven	King	24000.00	3600.0000
<input type="checkbox"/>	Neena	Kochhar	17000.00	2550.0000
<input type="checkbox"/>	Lex	De Haan	17000.00	2550.0000
<input type="checkbox"/>	Alexander	Hunold	9000.00	1350.0000
<input type="checkbox"/>	Bruce	Ernst	6000.00	900.0000
<input type="checkbox"/>	David	Austin	4800.00	720.0000
<input type="checkbox"/>	Valli	Pataballa	4800.00	720.0000
<input type="checkbox"/>	Diana	Lorentz	4200.00	630.0000
<input type="checkbox"/>	Nancy	Greenberg	12000.00	1800.0000
<input type="checkbox"/>	Daniel	Faviet	9000.00	1350.0000
<input type="checkbox"/>	John	Chen	8200.00	1230.0000
<input type="checkbox"/>	Ismael	Sciarra	7700.00	1155.0000
<input type="checkbox"/>	Jose Manuel	Urman	7800.00	1170.0000
<input type="checkbox"/>	Luis	Popp	6900.00	1035.0000
<input type="checkbox"/>	Den	Raphaely	11000.00	1650.0000
<input type="checkbox"/>	Alexander	Khoo	3100.00	465.0000

5. Write a query to get the employee ID, names (first_name, last_name), salary in ascending order of salary.

SELECT FIRST_NAME , LAST_NAME ,SALARY,(SALARY* 0.15) AS PF FROM employees;

	FIRST_NAME	LAST_NAME	SALARY
<input type="checkbox"/>	TJ	Olson	2100.00
<input type="checkbox"/>	Hazel	Philtanker	2200.00
<input type="checkbox"/>	Steven	Markle	2200.00
<input type="checkbox"/>	James	Landry	2400.00
<input type="checkbox"/>	Ki	Gee	2400.00
<input type="checkbox"/>	Joshua	Patel	2500.00
<input type="checkbox"/>	Randall	Perkins	2500.00
<input type="checkbox"/>	Peter	Vargas	2500.00
<input type="checkbox"/>	Karen	Colmenares	2500.00
<input type="checkbox"/>	Martha	Sullivan	2500.00
<input type="checkbox"/>	James	Marlow	2500.00
<input type="checkbox"/>	Guy	Himuro	2600.00
<input type="checkbox"/>	Donald	OConnell	2600.00

6. Write a query to get the total salaries payable to employees.

SELECT SUM(SALARY) AS TOTALSALARY FROM employees;

TOTALSALARY
691400.00

7. Write a query to get the maximum and minimum salary from employees table.

```
SELECT MIN(SALARY) AS MINSALARY , MAX(SALARY) AS MAXSALARY FROM employees;
```

MINSALARY	MAXSALARY
2100.00	24000.00

8. Write a query to get the average salary and number of employees in the employees table.

```
SELECT AVG(SALARY) AS AVERAGESALARY , COUNT(*) AS EMPLOYEECOUNT FROM employees;
```

AVERAGESALARY	EMPLOYEECOUNT
6461.682243	107

9. Write a query to get the number of employees working with the company.

```
SELECT COUNT(*) AS EMPLOYEECOUNT FROM employees;
```

EMPLOYEECOUNT
107

10. Write a query to get the number of jobs available in the employees table.

```
SELECT DISTINCT(JOB_ID) AS JOBIDS FROM employees;
```

	JOBIDS
<input type="checkbox"/> Edit Copy Delete	AC_ACCOUNT
<input type="checkbox"/> Edit Copy Delete	AC_MGR
<input type="checkbox"/> Edit Copy Delete	AD_ASST
<input type="checkbox"/> Edit Copy Delete	AD_PRES
<input type="checkbox"/> Edit Copy Delete	AD_VP
<input type="checkbox"/> Edit Copy Delete	FI_ACCOUNT
<input type="checkbox"/> Edit Copy Delete	FI_MGR
<input type="checkbox"/> Edit Copy Delete	HR_REP
<input type="checkbox"/> Edit Copy Delete	IT_PROG
<input type="checkbox"/> Edit Copy Delete	MK_MAN
<input type="checkbox"/> Edit Copy Delete	MK_REP

11. Write a query get all first name from employees table in upper case.

```
SELECT UCASE(FIRST_NAME) AS FIRST_NAME FROM employees;
```

FIRST_NAME
ELLEN
SUNDAR
MOZHE
DAVID
HERMANN
SHELLI
AMIT
ELIZABETH
SADAKH

12. Write a query to get the first 3 characters of first name from employees table.

```
SELECT SUBSTRING(FIRST_NAME,1,3) AS FIRST_NAME FROM employees;
```

FIRST_NAME
Ell
Sun
Moz
Dav
Her
She
Ami
Eli
Sar

13. Write a query to calculate $171*214+625$.

```
SELECT 171*214+625 AS RESULT ;
```

RESULT
37219

14. Write a query to get the names (for example Ellen Abel, Sundar Ande etc.) of all the employees from employees table.

```
SELECT CONCAT(FIRST_NAME, ' ', LAST_NAME) AS FULLNAME FROM employees;
```

FULLNAME
Ellen Abel
Sundar Ande
Mozhe Atkinson
David Austin
Hermann Baer
Shelli Baida
Amit Banda

15. Write a query to get first name from employees table after removing white spaces from both side.

```
SELECT TRIM(FIRST_NAME) AS FIRST_NAME FROM employees;
```

FIRST_NAME
Ellen
Sundar
Mozhe
David
Hermann
Shelli
Amit

16. Write a query to get the length of the employee names (first_name, last_name) from employees table.

```
SELECT LENGTH(CONCAT(FIRST_NAME, ' ', LAST_NAME)) AS NAMELENGTH FROM employees;
```

NAMELENGTH
10
11
14
12
12
12
10
15
10

17. Write a query to check if the first_name fields of the employees table contains numbers.

```
SELECT * FROM employees WHERE first_name REGEXP '[0-9]';
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
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Many result operations

18. Write a query to select first 10 records from a table.

```
SELECT * FROM employees LIMIT 10;
```

Extra options										
	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_P	
<input type="checkbox"/> Edit Copy Delete	100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00		
<input type="checkbox"/> Edit Copy Delete	101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00		
<input type="checkbox"/> Edit Copy Delete	102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00		
<input type="checkbox"/> Edit Copy Delete	103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00		
<input type="checkbox"/> Edit Copy Delete	104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00		
<input type="checkbox"/> Edit Copy Delete	105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00		
<input type="checkbox"/> Edit Copy Delete	106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00		
<input type="checkbox"/> Edit Copy Delete	107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00		

19. Write a query to get monthly salary (round 2 decimal places) of each and every employee

Note : Assume the salary field provides the 'annual salary' information.

```
SELECT FIRST_NAME,ROUND((SALARY/12) , 2) AS MONTHLYSALARY FROM employees;
```

	FIRST_NAME	MONTHLYSALARY
<input type="checkbox"/> Edit Copy Delete	Steven	2000.00
<input type="checkbox"/> Edit Copy Delete	Neena	1416.67
<input type="checkbox"/> Edit Copy Delete	Lex	1416.67
<input type="checkbox"/> Edit Copy Delete	Alexander	750.00
<input type="checkbox"/> Edit Copy Delete	Bruce	500.00
<input type="checkbox"/> Edit Copy Delete	David	400.00
<input type="checkbox"/> Edit Copy Delete	Valli	400.00