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Cms 023-22-0242

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 limit 10;
```

first name	last name
Steven	King
Neena	Kochhar
Lex	De Haan
Alexander	Hunold
Bruce	Ernst
David	Austin
Valli	Pataballa
Diana	Lorentz
Nancy	Greenberg
Daniel	Faviet

10 rows in set (0.00 sec)

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

```
select distinct department_id from employees;
```

department_id
NULL
10
20
30
40
50
60
70
80
90
100
110

12 rows in set (0.00 sec)

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 limit 10;
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_id |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 180 | Winston | Taylor | WTAYLOR | 650.507.9876 | 1998-01-24 | SH_CLERK | 3200.00 | NULL | 120 | 50 |
| 171 | William | Smith | WSMITH | 011.44.1343.629268 | 1999-02-23 | SA_REP | 7400.00 | 0.15 | 148 | 80 |
| 206 | William | Gietz | WGIETZ | 51hr5.123.8181 | 1994-06-07 | AC_ACCOUNT | 8300.00 | NULL | 205 | 110 |
| 195 | Vance | Jones | VJONES | 650.501.4876 | 1999-03-17 | SH_CLERK | 2800.00 | NULL | 123 | 50 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT_PROG | 4800.00 | NULL | 103 | 60 |
| 141 | Tenna | Rajs | TRAJ | 650.121.8009 | 1995-10-17 | ST_CLERK | 3500.00 | NULL | 124 | 50 |
| 132 | TJ | Olson | TJOLSON | 650.124.8234 | 1999-04-10 | ST_CLERK | 2100.00 | NULL | 121 | 50 |
| 190 | Timothy | Gates | TGATES | 650.505.3876 | 1998-07-11 | SH_CLERK | 2900.00 | NULL | 122 | 50 |
| 170 | Tayler | Fox | TFOX | 011.44.1343.729268 | 1998-01-24 | SA_REP | 9600.00 | 0.20 | 148 | 80 |
| 203 | Susan | Mavris | SMAVRIS | 515.123.7777 | 1994-06-07 | HR_REP | 6500.00 | NULL | 101 | 40 |
+-----+-----+-----+-----+-----+-----+-----+-----+

```

```

+-----+-----+
10 rows in set (0.00 sec)

```

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

```

select employee_id,first_name,last_name,salary from employees order by salary asc limit 10;

```

```

+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary |
+-----+-----+-----+-----+
| 132 | TJ | Olson | 2100.00 |
| 136 | Hazel | Philtanker | 2200.00 |
| 128 | Steven | Markle | 2200.00 |
| 127 | James | Landry | 2400.00 |
| 135 | Ki | Gee | 2400.00 |
| 119 | Karen | Colmenares | 2500.00 |
| 144 | Peter | Vargas | 2500.00 |
| 131 | James | Marlow | 2500.00 |
| 140 | Joshua | Patel | 2500.00 |
| 182 | Martha | Sullivan | 2500.00 |
+-----+-----+-----+-----+

```

```

10 rows in set (0.00 sec)

```

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

```

select sum(salary) from employees;

```

```

+-----+
| sum(salary) |
+-----+
| 691400.00 |

```

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

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

```
select min(salary),max(salary) from employees;
+-----+-----+
| min(salary) | max(salary) |
+-----+-----+
| 2100.00 | 24000.00 |
+-----+-----+
1 row in set (0.00 sec)
```

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

```
select avg(salary),count(employee_id) from employees;
+-----+-----+
| avg(salary) | count(employee_id) |
+-----+-----+
| 6461.682243 | 107 |
+-----+-----+
1 row in set (0.00 sec)
```

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

```
select count(distinct job_id) from employees;
+-----+
| count(distinct job_id) |
+-----+
| 19 |
+-----+
1 row in set (0.00 sec)
```

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

```
select upper(first_name) from employees limit 10;
+-----+
| upper(first_name) |
+-----+
| STEVEN |
| NEENA |
| LEX |
| ALEXANDER |
| BRUCE |
| DAVID |
```

VALLI	
DIANA	
NANCY	
DANIEL	

-----+

10 rows in set (0.00 sec)

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

select* from employees limit 10;

-----+
 ---+-----+

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
-------------	------------	-----------	-------	--------------	-----------	--------	--------	----------------	------------	---------------

-----+
 ---+-----+

100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00			
NULL	NULL	90								
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00			
NULL	100	90								
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00			
NULL	100	90								
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00			
NULL	102	60								
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00			
NULL	103	60								
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00			
NULL	103	60								
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00			
NULL	103	60								
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00			
NULL	103	60								
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00			
NULL	101	100								
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00			
NULL	108	100								

-----+
 ---+-----+

10 rows in set (0.00 sec)

. Write a query to select 3rd & 4th record of employees table.

select* from employees limit 3,1;

select* from employees limit 2,2;

-----+
 -----+

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
-------------	------------	-----------	-------	--------------	-----------	--------	--------	----------------	------------	---------------

-----+
 -----+

102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00			
NULL	100	90								
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00			
NULL	102	60								

2 rows in set (0.00 sec)

Write a query to select 2nd last record of employees table

```
SELECT* FROM employees ORDER BY employee_id DESC LIMIT 1 OFFSET 1;
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| employee_id | first_name | last_name | email   | phone_number | hire_date | job_id | salary |
| commission_pct | manager_id | department_id |
+-----+-----+-----+-----+-----+-----+-----+-----+
|      205 | Shelley   | Higgins   | SHIGGINS | 515.123.8080 | 1994-06-07 | AC_MGR | 12000.00 |
| NULL |      101 |      110 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

