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CLASS: BS(CS IV)

SECTION: B

LAB 1: DATABASES

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

```
mysql> 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

```
mysql> 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)

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

```
mysql> 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	Trenna	Rajs	TRAJs	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)

4. 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 5;

```

+-----+-----+-----+-----+
| employee_id | first_name | last_name | salary |
+-----+-----+-----+-----+
| 132 | TJ | Olson | 2100.00 |
| 128 | Steven | Markle | 2200.00 |
| 136 | Hazel | Philtanker | 2200.00 |
| 135 | Ki | Gee | 2400.00 |
| 127 | James | Landry | 2400.00 |
+-----+-----+-----+-----+

```

5 rows in set (0.00 sec)

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

mysql> select sum(salary) from employees;

```

+-----+

```

```
| sum(salary) |
```

```
+-----+
```

```
| 691400.00 |
```

```
+-----+
```

1 row in set (0.00 sec)

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

```
mysql> select min(salary) , max(salary) from employees;
```

```
+-----+-----+
```

```
| min(salary) | max(salary) |
```

```
+-----+-----+
```

```
| 2100.00 | 24000.00 |
```

```
+-----+-----+
```

1 row in set (0.00 sec)

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

table.

```
mysql> select avg(salary) , count(employee_id) from employees;
```

```
+-----+-----+
```

```
| avg(salary) | count(employee_id) |
```

```
+-----+-----+
```

```
| 6461.682243 | 107 |
```

```
+-----+-----+
```

1 row in set (0.00 sec)

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

```
mysql> select count(distinct job_id) from employees;
```

```
+-----+
```

```
| count(distinct job_id) |
```

```
+-----+
```

| 19 |

+-----+

1 row in set (0.03 sec)

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

mysql> select upper(first_name) from employees;

+-----+

| upper(first_name) |

+-----+

| STEVEN |

| NEENA |

| LEX |

| ALEXANDER |

| BRUCE |

| DAVID |

| VALLI |

| DIANA |

| NANCY |

| DANIEL |

| JOHN |

| ISMAEL |

| JOSE MANUEL |

| LUIS |

| DEN |

| ALEXANDER |

| SHELLI |

| SIGAL |

| GUY |

| KAREN |

| MATTHEW |

ADAM	
PAYAM	
SHANTA	
KEVIN	
JULIA	
IRENE	
JAMES	
STEVEN	
LAURA	
MOZHE	
JAMES	
TJ	
JASON	
MICHAEL	
KI	
HAZEL	
RENSKE	
STEPHEN	
JOHN	
JOSHUA	
TRENNNA	
CURTIS	
RANDALL	
PETER	
JOHN	
KAREN	
ALBERTO	
GERALD	
ELENI	

PETER	
DAVID	
PETER	
CHRISTOPHER	
NANETTE	
OLIVER	
JANETTE	
PATRICK	
ALLAN	
LINDSEY	
LOUISE	
SARATH	
CLARA	
DANIELLE	
MATTEA	
DAVID	
SUNDAR	
AMIT	
LISA	
HARRISON	
TAYLER	
WILLIAM	
ELIZABETH	
SUNDITA	
ELLEN	
ALYSSA	
JONATHON	
JACK	
KIMBERELY	

CHARLES	
WINSTON	
JEAN	
MARTHA	
GIRARD	
NANDITA	
ALEXIS	
JULIA	
ANTHONY	
KELLY	
JENNIFER	
TIMOTHY	
RANDALL	
SARAH	
BRITNEY	
SAMUEL	
VANCE	
ALANA	
KEVIN	
DONALD	
DOUGLAS	
JENNIFER	
MICHAEL	
PAT	
SUSAN	
HERMANN	
SHELLEY	
WILLIAM	

+-----+

107 rows in set (0.00 sec)

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

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

10 rows in set (0.00 sec)

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

```
mysql> select* from employees order by employee_id limit 2 offset 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)

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

```
mysql> 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)