Assignment 2 : DML Commands (select, where, like, group by, order by, Date)

<u>Shreya Pawaskar</u> <u>CNO - C22018881961</u> <u>ROLL NO - 3947</u> <u>DIVISION - C</u>

1. Write a query in SQL to display all the information of the employees

mysql> select * from employee;

-···-	,041,	±		L		L	1	L	L
	E_id	Ename	Post 	Address	Phno	Date_of_Joining	Annual_income	Gender 	 Did
İ	1	 Vedika	 analyst	 Delhi	8756998756	2010-07-09	50000	' F	1 1
	2	John	analyst	Pune	8234997656	2000-09-01	50000	M	4
	3	Rajan	Manager	Mumbai	8009781256	2005-02-12	90000	M	3
	4	Ritika	Finance head	Mumbai	7559081256	2020-02-12	100000	F	1
	5	Neha	clerk	banglore	8638739922	2020-04-04	20000	F	13
	6	Sam	clerk	banglore	8638712322	2020-09-08	20000	M	1
	7	Anne	clerk	Hyderabad	6738712300	2000-01-12	60000	F	8
	8	Anita	engineer	Hyderabad	9990012300	2007-01-12	90000	F	10
	9	Asmita	clerk	Pune	9988712300	2000-11-12	60000	F	8
	10	Manish	Cashier	Pune	9988714670	2019-01-19	60000	M	9
	11	Rohit	Tech Lead	Pune	9983976670	2019-08-19	90000	M	10
	12	Ritesh	Manager	Pune	9983112270	2005-07-11	90000	M	15
	13	Soha	Manager	Nashik	7783112270	2003-07-11	100000	F	2
	14	Saniya	Manager	Nashik	7783118760	2003-07-11	90000	F	7
	15	anisha	Manager	Nashik	9879875656	2008-07-12	90000	F	11
+-		+	+	+		+	+	+	++

¹⁵ rows in set (0.99 sec)

2. Write a query in SQL to list the E_id,name and income of all the employees

mysql> select e_id,ename,annual_income from employee;

+		-+-	_ 	- - + ·	
 -	e_id	 -+.	ename	 -+:	annual_income
' 	1	' 	Vedika	' 	50000
' 	2	' 	John	' 	50000
	3	 	Rajan	' 	90000
1	4	1	Ritika	1	100000
	-				
١	5	ı	Neha		20000
	6		Sam		20000
	7		Anne		60000
	8		Anita		90000
	9		Asmita		60000
	10		Manish		60000
	11		Rohit		90000
	12		Ritesh		90000
	13		Soha		100000
	14		Saniya		90000
	15		anisha		90000
+		-+-		+	+

15 rows in set (0.00 sec)

3. Write a query in SQL to display the details of the employee John

4. Display name of all the female employees from the employee table.

mysql> select * from employee where gender="F";

+ -	E_id	'	Post	Address	Phno	Date_of_Joining	Annual_income	Gender	Did
+	1 4 5 7 8 9 13	Vedika Ritika Neha Anne Anita	analyst Finance head clerk clerk engineer	Holhi Delhi Mumbai banglore Hyderabad Hyderabad Pune Nashik	8756998756 7559081256 8638739922 6738712300 9990012300 9988712300 7783112270	2010-07-09 2020-02-12 2020-04-04 2000-01-12 2007-01-12 2000-11-12 2003-07-11 2003-07-11	50000 100000 20000 60000 90000 100000	F F F F F	++ 1 1 13 8 10 8 2
	15	anisha	Manager	Nashik	9879875656	2008-07-12	90000	F	11

⁹ rows in set (0.00 sec)

5. Write a command to remove record of employee "Rajan"

mysql> delete from employee where ename="Rajan";
Query OK, 1 row affected (0.62 sec)

mysql> select * from employee;

E_ic		Ename		' Address +	 -	Phno	Date	_of_Joining	' Annual +	_		Gender	 D)id
1	+ 1	Vedika		 Delhi		8756998756		-07-09		50000		F	, — — 	1
2	2	John	analyst	Pune		8234997656	2000	-09-01		50000	1	M		4
4	4	Ritika	Finance head	Mumbai		7559081256	2020	-02-12		100000	-	F		1
5	5	Neha	clerk	banglore		8638739922	2020	-04-04		20000		F		13
6	6	Sam	clerk	banglore		8638712322	2020	-09-08		20000		M		1
1 7	7	Anne	clerk	Hyderabad		6738712300	2000	-01-12		60000		F		8
8	3	Anita	engineer	Hyderabad		9990012300	2007	-01-12		90000		F		10
9	9	Asmita	clerk	Pune		9988712300	2000	-11-12		60000		F		8
10) (Manish	Cashier	Pune		9988714670	2019	-01-19		60000		M		9
11	1	Rohit	Tech Lead	Pune		9983976670	2019	-08-19		90000		M		10
12	2	Ritesh	Manager	Pune		9983112270	2005	-07-11		90000		M		15
13	3	Soha	Manager	Nashik		7783112270	2003	-07-11		100000		F		2
14	4	Saniya	Manager	Nashik		7783118760	2003	-07-11		90000	-	F		7
15	5	anisha	Manager	Nashik		9879875656	2008	-07-12		90000	-	F		11

¹⁴ rows in set (0.00 sec)

6. Change address of John to "Delhi".

	2	John	analyst	Delhi	8234997656 2000-09-01	1	50000 M	4
	4	Ritika	Finance head	Mumbai	7559081256 2020-02-12	1	100000 F	1
	5	Neha	clerk	banglore	8638739922 2020-04-04	1	20000 F	13

7. Write a query in SQL to display the unique designations for the employees.

8. Write a query in SQL to list all the employees whose designation is Manager.

mysql> select * from employee

-> where post="Manager";

E_id	Ename	Post	Address	Phno	+ Date_of_Joining 	Annual_income	Gender	Did
12 13 14 15	Ritesh Soha Saniya anisha	Manager Manager Manager	Pune Nashik Nashik Nashik	9983112270 7783112270 7783118760 9879875656	2005-07-11 2003-07-11 2003-07-11	90000 100000 90000 90000	M F F	15 2 7 11

4 rows in set (0.00 sec)

9. Display only first five records of employee table

mysql> select * from employee limit 5;

E_id	Ename	Post	Address	Phno	+ Date_of_Joining +	Annual_income	Gender	Did
•	•			8756998756		50000		1
2	John	analyst	Delhi	8234997656	2000-09-01	50000	M	4
4	Ritika	Finance head	Mumbai	7559081256	2020-02-12	100000	F	1
5	Neha	clerk	banglore	8638739922	2020-04-04	20000	F	13
6	Sam	clerk	banglore	8638712322	2020-09-08	20000	M	1

5 rows in set (0.00 sec)

10.Write a query in SQL to list the employees in the ascending order of their annual income.

mysql> select *

- -> from employee
- -> order by annual_income
- -> asc;

:	E_id	Ename	Post	Address	Phno	Date_of_Joining	Annual_income	Gender	Did
İ			 clerk	 banglore	8638739922		20000		13
	6	Sam	clerk	banglore	8638712322	2020-09-08	20000	l M	1
	1	Vedika	analyst	Delhi	8756998756	2010-07-09	50000	F	1
	2	John	analyst	Delhi	8234997656	2000-09-01	50000	l M	4
	7	Anne	clerk	Hyderabad	6738712300	2000-01-12	60000	F	8
	9	Asmita	clerk	Pune	9988712300	2000-11-12	60000	F	8
	10	Manish	Cashier	Pune	9988714670	2019-01-19	60000	l M	9
	8	Anita	engineer	Hyderabad	9990012300	2007-01-12	90000	F	10

	11	Rohit	Tech Lead	Pune	- 1	9983976670	2019-08-19		90000	M		10
	12	Ritesh	Manager	Pune	-	9983112270	2005-07-11		90000	M		15
	14	Saniya	Manager	Nashik		7783118760	2003-07-11		90000	F		7
	15	anisha	Manager	Nashik	- 1	9879875656	2008-07-12		90000	F		11
	4	Ritika	Finance head	Mumbai	-	7559081256	2020-02-12		100000	F		1
	13	Soha	Manager	Nashik	- 1	7783112270	2003-07-11		100000	F		2
+	+	+		+	+		<u> </u>	 +	+		+	+

14 rows in set (0.11 sec)

10. Display the ename and post of employees whose annual income is more than 10,00000

mysql> select ename,post from employee where annual_income >1000000; Empty set (0.04 sec)

12.Write a query in SQL to list the employees who joined before 2001.

mysql> select * from employee

-> where date of joining<('2001-01-01');

	 	+	+	+	+	+ 	+
Ename	Post	Address	Phno	Date_of_Joining	Annual_income	Gender	Did
	•		•	•	•		•
Anne	clerk	Hyderabad	6738712300	2000-01-12	60000	F	8
Asmita	clerk	Pune	9988712300	2000-11-12	60000	F	8
	Ename John Anne	Ename Post John analyst Anne clerk	Ename Post Address John analyst Delhi Anne clerk Hyderabad	Ename Post Address Phno John analyst Delhi 8234997656 Anne clerk Hyderabad 6738712300	Ename Post Address Phno Date_of_Joining	Ename Post Address Phno Date_of_Joining Annual_income	John analyst Delhi 8234997656 2000-09-01 50000 M Anne clerk Hyderabad 6738712300 2000-01-12 60000 F

3 rows in set (0.05 sec)

13. Write a query in SQL to list the employees who joined in October 2005.

```
mysql> select * from employee
     -> where date_of_joining between date '2005-10-01' and date '2005-10-31';
Empty set (0.11 sec)
```

14. Write a guery in SQL to list the employees whose income is less than 500000.

mysql> select * from employee

-> where annual_income <500000;</pre>

E	_id		Post	Address	Phno	+ Date_of_Joining +	Annual_income	Gender	Did
	1	Vedika		 Delhi	8756998756	2010-07-09	50000	' F	' 1
	2	John	analyst	Delhi	8234997656	2000-09-01	50000	M	4
	4	Ritika	Finance head	Mumbai	7559081256	2020-02-12	100000	F	1
	5 I	Neha	clerk	banglore	8638739922	2020-04-04	20000	F	13
	6	Sam	clerk	banglore	8638712322	2020-09-08	20000	M	1
	7	Anne	clerk	Hyderabad	6738712300	2000-01-12	60000	F	8
	8	Anita	engineer	Hyderabad	9990012300	2007-01-12	90000	F	10
	9	Asmita	clerk	Pune	9988712300	2000-11-12	60000	F	8
	10	Manish	Cashier	Pune	9988714670	2019-01-19	60000	M	9
	11	Rohit	Tech Lead	Pune	9983976670	2019-08-19	90000	M	10
	12	Ritesh	Manager	Pune	9983112270	2005-07-11	90000	M	15
	13	Soha	Manager	Nashik	7783112270	2003-07-11	100000	F	2
	14	Saniya	Manager	Nashik	7783118760	2003-07-11	90000	F	7
1	15	anisha	Manager	Nashik	9879875656	2008-07-12	90000	F	11

14 rows in set (0.00 sec)

15. Write a query in SQL to list the employees whose salary is within the range 24000 and 50000.

16. Write a query in SQL to list the names of those employees starting with 'A' .

mysql> select * -> from employee -> where ename like 'A%'; +----+ | Address | Phno | Date_of_Joining | Annual_income | Gender | Did | | E_id | Ename | Post +----+ 7 | Anne | clerk | Hyderabad | 6738712300 | 2000-01-12 | 60000 | F 8 | Anita | engineer | Hyderabad | 9990012300 | 2007-01-12 | 90000 | F | 10 | 9 | Asmita | clerk | Pune | 9988712300 | 2000-11-12 60000 | F | 8 | | 11 | 15 | anisha | Manager | Nashik | 9879875656 | 2008-07-12 90000 | F 4 rows in set (0.10 sec)

17.Write a query in SQL to list the employees whose name is six characters in length and the third character must be 'R'.

18. Write a query in SQL to list the employees whose name is ending with s

19. Write a query in SQL to find the highest annual from all the employees.

```
mysql> select avg(annual_income)
     -> from employee
     -> where post="analyst";
+-----+
| avg(annual_income) |
+-----+
| 50000 |
+-----+
1 row in set (0.00 sec)
```

21. Write a query in SQL to find the average salary a for each type of post.

+----+

7 rows in set (0.00 sec)

22. Write a query in SQL to display the number of employee for each post.

23. Display citiwise count of the employees.

mysql> select address, count(*) -> from employee -> group by address; +----+ | address | count(*) | +----+ | 2 | | Delhi | Mumbai | | banglore | 2 | | Hyderabad | | Pune 4 | - 1 | Nashik +----+ 6 rows in set (0.00 sec)