

Assignment – 9 (Views)

Write SQL queries for the following:

employee_details (id, first_name, last_name, dob, address, email, post, salary)

(id int

dob date

address text

salary decimal)

```
MariaDB [dbms_practice]> select * from employee_details;
```

id	first_name	last_name	dob	address	email	post	salary
1	John	Doe	1985-01-15	123 Elm Street, Springfield	john.doe@example.com	Engineer	75000.00
2	Jane	Smith	1990-05-22	456 Oak Avenue, Springfield	jane.smith@example.com	Manager	85000.00
3	Alice	Johnson	1987-03-09	789 Pine Road, Springfield	alice.johnson@example.com	Analyst	70000.00
4	Bob	Brown	1992-11-30	101 Maple Drive, Springfield	bob.brown@example.com	Engineer	72000.00
5	Carol	Davis	1984-07-25	202 Birch Street, Springfield	carol.davis@example.com	Director	95000.00
6	David	Miller	1986-08-19	303 Cedar Lane, Springfield	david.miller@example.com	Consultant	80000.00
7	Eva	Wilson	1989-12-01	404 Walnut Blvd, Springfield	eva.wilson@example.com	Engineer	74000.00
8	Frank	Moore	1991-04-14	505 Cherry Hill, Springfield	frank.moore@example.com	Manager	88000.00
9	Grace	Taylor	1988-06-10	606 Ash Court, Springfield	grace.taylor@example.com	Analyst	69000.00
10	Hank	Anderson	1993-09-23	707 Pine Circle, Springfield	hank.anderson@example.com	Consultant	81000.00
11	Ivy	Thomas	1983-02-17	808 Willow Street, Springfield	ivy.thomas@example.com	Director	97000.00
12	Jack	Jackson	1987-10-05	909 Spruce Drive, Springfield	jack.jackson@example.com	Engineer	76000.00
13	Kathy	White	1994-11-20	1010 Fir Avenue, Springfield	kathy.white@example.com	Manager	87000.00
14	Larry	Harris	1982-05-13	1111 Redwood Road, Springfield	larry.harris@example.com	Analyst	68000.00
15	Megan	Martin	1990-03-08	1212 Poplar Street, Springfield	megan.martin@example.com	Consultant	79000.00

15 rows in set (0.003 sec)

Views:

1. Create a view employee_basic_info which will show only the basic information of the employees. (first_name, last_name, address, email)

```
MariaDB [dbms_practice]> create view employee_basic_info AS
-> SELECT first_name, last_name, address, email
-> FROM employee_details;
Query OK, 0 rows affected (0.006 sec)

MariaDB [dbms_practice]> select * from employee_basic_info;
```

first_name	last_name	address	email
John	Doe	123 Elm Street, Springfield	john.doe@example.com
Jane	Smith	456 Oak Avenue, Springfield	jane.smith@example.com
Alice	Johnson	789 Pine Road, Springfield	alice.johnson@example.com
Bob	Brown	101 Maple Drive, Springfield	bob.brown@example.com
Carol	Davis	202 Birch Street, Springfield	carol.davis@example.com
David	Miller	303 Cedar Lane, Springfield	david.miller@example.com
Eva	Wilson	404 Walnut Blvd, Springfield	eva.wilson@example.com
Frank	Moore	505 Cherry Hill, Springfield	frank.moore@example.com
Grace	Taylor	606 Ash Court, Springfield	grace.taylor@example.com
Hank	Anderson	707 Pine Circle, Springfield	hank.anderson@example.com
Ivy	Thomas	808 Willow Street, Springfield	ivy.thomas@example.com
Jack	Jackson	909 Spruce Drive, Springfield	jack.jackson@example.com
Kathy	White	1010 Fir Avenue, Springfield	kathy.white@example.com
Larry	Harris	1111 Redwood Road, Springfield	larry.harris@example.com
Megan	Martin	1212 Poplar Street, Springfield	megan.martin@example.com

```
15 rows in set (0.001 sec)
```

2. Create a view highest_paid_employee which will store the details of the first five highest paid employees all details.

```
MariaDB [dbms_practice]> create view highest_paid_employee AS
-> SELECT id, first_name, last_name, dob, address, email, post, salary
-> FROM employee_details
-> ORDER BY salary DESC
-> LIMIT 5;
Query OK, 0 rows affected (0.010 sec)

MariaDB [dbms_practice]> select * from highest_paid_employee;
```

id	first_name	last_name	dob	address	email	post	salary
11	Ivy	Thomas	1983-02-17	808 Willow Street, Springfield	ivy.thomas@example.com	Director	97000.00
5	Carol	Davis	1984-07-25	202 Birch Street, Springfield	carol.davis@example.com	Director	95000.00
8	Frank	Moore	1991-04-14	505 Cherry Hill, Springfield	frank.moore@example.com	Manager	88000.00
13	Kathy	White	1994-11-20	1010 Fir Avenue, Springfield	kathy.white@example.com	Manager	87000.00
2	Jane	Smith	1990-05-22	456 Oak Avenue, Springfield	jane.smith@example.com	Manager	85000.00

```
5 rows in set (0.060 sec)
```

3. Add one more column post in the employee_basic_info view

```
MariaDB [dbms_practice]> create or replace view employee_basic_info AS select first_name, last_name, address, email, post from employee_details;
Query OK, 0 rows affected (0.006 sec)

MariaDB [dbms_practice]> select * from employee_basic_info;
```

first_name	last_name	address	email	post
John	Doe	123 Elm Street, Springfield	john.doe@example.com	Engineer
Jane	Smith	456 Oak Avenue, Springfield	jane.smith@example.com	Manager
Alice	Johnson	789 Pine Road, Springfield	alice.johnson@example.com	Analyst
Bob	Brown	101 Maple Drive, Springfield	bob.brown@example.com	Engineer
Carol	Davis	202 Birch Street, Springfield	carol.davis@example.com	Director
David	Miller	303 Cedar Lane, Springfield	david.miller@example.com	Consultant
Eva	Wilson	404 Walnut Blvd, Springfield	eva.wilson@example.com	Engineer
Frank	Moore	505 Cherry Hill, Springfield	frank.moore@example.com	Manager
Grace	Taylor	606 Ash Court, Springfield	grace.taylor@example.com	Analyst
Hank	Anderson	707 Pine Circle, Springfield	hank.anderson@example.com	Consultant
Ivy	Thomas	808 Willow Street, Springfield	ivy.thomas@example.com	Director
Jack	Jackson	909 Spruce Drive, Springfield	jack.jackson@example.com	Engineer
Kathy	White	1010 Fir Avenue, Springfield	kathy.white@example.com	Manager
Larry	Harris	1111 Redwood Road, Springfield	larry.harris@example.com	Analyst
Megan	Martin	1212 Poplar Street, Springfield	megan.martin@example.com	Consultant

```
15 rows in set (0.006 sec)
```

4. Create a view emp_imp which will store post and email address of the employee.

```
MariaDB [dbms_practice]> create view emp_imp AS  
-> select post,email from employee_details;  
Query OK, 0 rows affected (0.020 sec)
```

```
MariaDB [dbms_practice]> select * from emp_imp;
```

post	email
Engineer	john.doe@example.com
Manager	jane.smith@example.com
Analyst	alice.johnson@example.com
Engineer	bob.brown@example.com
Director	carol.davis@example.com
Consultant	david.miller@example.com
Engineer	eva.wilson@example.com
Manager	frank.moore@example.com
Analyst	grace.taylor@example.com
Consultant	hank.anderson@example.com
Director	ivy.thomas@example.com
Engineer	jack.jackson@example.com
Manager	kathy.white@example.com
Analyst	larry.harris@example.com
Consultant	megan.martin@example.com

15 rows in set (0.001 sec)

5. Delete the emp_imp view.

```
MariaDB [dbms_practice]> drop view emp_imp;  
Query OK, 0 rows affected (0.001 sec)
```