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| **Experiment No.** | **7** |

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| **AIM:** | **To implement VIEWS in MySQL** |
| **PROBLEM STATEMENT:** | Create Views of the tables of the existing mysql database and perform CRUD actions on the views |
| **THEORY:** | **VIEWS:**  In SQL, a view is a virtual table based on the result-set of an SQL statement. A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.  You can add SQL statements and functions to a view and present the data as if the data were coming from one single table.  **Create VIEW Syntax:**  CREATE VIEW *view\_name* AS SELECT *column1*, *column2*, ... FROM *table\_name* WHERE *condition*;  **Update VIEW Syntax:**  CREATE OR REPLACE VIEW *view\_name* AS SELECT *column1*, *column2*, ... FROM *table\_name* WHERE *condition*;  **Drop VIEW Syntax:**  DROP VIEW *view\_name*; |
| **QUERIES:** | **Create VIEW Queries:**  1. Create view “patient ages” which stores patient & their age  CREATE VIEW patient\_ages AS  SELECT P\_id,Age  FROM patient;  2. Create view doctor table which stores doctor’s name, salary & field:  CREATE VIEW doctor\_details AS  SELECT Dname,Salary,Field  FROM doctor;  **Select VIEW Queries:**  1. Display view “patient\_ages”:  SELECT \* FROM patient\_ages;  2. Display view “doctor\_details”:  SELECT \* FROM doctor\_details;  **Update VIEW Queries:**  1. Update the patient age view to also display the patient’s name:  CREATE OR REPLACE VIEW patient\_ages AS  SELECT P\_id,Pname,Age  FROM patient;  2. Update the doctor details view to also display the doctor’s ID:  CREATE OR REPLACE VIEW doctor\_details AS  SELECT D\_id,Dname,Salary,Field  FROM doctor;  **VIEWS with JOIN Clause:**  1. Create a view which shows all patients and theirname who have been assigned a doctor, the view should also show the doctor assigned:  CREATE VIEW patient\_doctor AS  SELECT patient.P\_id,patient.Pname,doctor.Dname,doctor.D\_id  FROM doctor,patient  WHERE doctor.D\_id=patient.D\_id;  2. Create a view of a cross join between patient and doctor table displaying the patient & doctor’s names:  CREATE OR REPLACE VIEW pd\_alt AS  SELECT patient.Pname,doctor.Dname  FROM patient CROSS JOIN doctor;  **Drop VIEW Queries:**  1. DROP VIEW patient\_ages;  2. DROP VIEW doctor\_details;  3. DROP VIEW patient\_doctor;  4. DROP VIEW pd\_alt; |
| **CONCLUSION:** | In this experiment, we learned how to perform CURD (create, update, read & delete) actions on a VIEW in MySQL db |