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Experiment No.	C8
Topic	Crime Records

AIM:	To Create a different view of database.
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Program 1

PROBLEM STATEMENT:	To Create a different view of the database (create views, insert into view, update view, drop view, grant and revoke the view to the user)
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RESULT:

Create a View:

```

3      -- Create a View --
4      CREATE VIEW HighThreatCriminals AS
5      SELECT criminal_id, name, threat_level
6      FROM Criminal
7      WHERE threat_level = 'High';
8
9      SELECT * FROM HighThreatCriminals;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
criminal_id	name	threat_level	
1000	Ravi Kumar	High	
1003	Anjali Gupta	High	
1006	Rohit Patel	High	

Insert into View:

```
11      -- Insert into View --
12      INSERT INTO HighThreatCriminals (criminal_id, name, threat_level)
13      VALUES (1010, 'Kiran Verma', 'High');
14
15      SELECT * FROM HighThreatCriminals;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
criminal_id	name	threat_level	
1000	Ravi Kumar	High	
1003	Anjali Gupta	High	
1006	Rohit Patel	High	
1010	Kiran Verma	High	

Update a View:

```
17      -- Update a View --
18      UPDATE HighThreatCriminals
19      SET threat_level = 'Severe'
20      WHERE criminal_id = 1010;
21
22      SELECT * FROM HighThreatCriminals;
```

Output:

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
criminal_id	name	threat_level	
1000	Ravi Kumar	High	
1003	Anjali Gupta	High	
1006	Rohit Patel	High	

Grant Access to a View:

```
24      -- Grant Access to a View --  
25 •    GRANT SELECT ON CriminalRecord.HighThreatCriminals TO Admin;
```

User Side Output:

```
1 •    USE CriminalRecord;  
2  
3 •    SELECT * FROM HighThreatCriminals;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:																
<table><tr><th></th><th>criminal_id</th><th>name</th><th>threat_level</th></tr><tr><td>▶</td><td>1000</td><td>Ravi Kumar</td><td>High</td></tr><tr><td></td><td>1003</td><td>Anjali Gupta</td><td>High</td></tr><tr><td></td><td>1006</td><td>Rohit Patel</td><td>High</td></tr></table>		criminal_id	name	threat_level	▶	1000	Ravi Kumar	High		1003	Anjali Gupta	High		1006	Rohit Patel	High			
	criminal_id	name	threat_level																
▶	1000	Ravi Kumar	High																
	1003	Anjali Gupta	High																
	1006	Rohit Patel	High																

Revoke Access from a View:

```
27      -- Revoke Access from a View --  
28 •    REVOKE SELECT ON CriminalRecord.HighThreatCriminals FROM Admin;
```

User Side Output:

Output			
Action Output			
#	Time	Action	Message
1	22:20:51	SELECT * FROM HighThreatCriminals LIMIT 0, 1000	Error Code: 1142. SELECT command denied to user 'Admin'@'localhost' for table 'highthreatcriminals'

Drop a View:

```
30      -- Drop a View --  
31 •    DROP VIEW HighThreatCriminals;
```

Output:

Output			
Action Output			
#	Time	Action	Message
✓ 6	22:13:21	SELECT * FROM Criminal LIMIT 0, 1000	11 row(s) returned
✓ 7	22:14:18	SELECT * FROM HighThreatCriminals LIMIT 0, 1000	3 row(s) returned
✓ 8	22:17:05	GRANT SELECT ON CriminalRecord.HighThreatCriminals TO Admin	0 row(s) affected
✓ 9	22:20:14	REVOKE SELECT ON CriminalRecord.HighThreatCriminals FROM Admin	0 row(s) affected
✓ 10	22:21:28	DROP VIEW HighThreatCriminals	0 row(s) affected
✗ 11	22:22:31	SELECT * FROM HighThreatCriminals LIMIT 0, 1000	Error Code: 1146. Table 'criminalrecord.highthreatcriminals' doesn't exist