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Experiment No.	C.4
Topic	Crime Records

AIM:	To perform Date, Time, Arithmetic and Set operation on database
Program 1	
PROBLEM STATEMENT:	<p>To perform Date, Time, Arithmetic and Set operation on database.</p> <p>Queries for Set operation -union, intersect, except & union all, intersect all and except all.</p> <p>Queries for Arithmetic operation - +, -, *, /, Concatenation operator - , Logical operator - AND, OR, <> Comparison operator- >, >=, <, <=, !=</p> <p>Queries for Date and Time- datediff, EXTRACT the date</p>
RESULT: Criminal Data 1 <pre> 1 • USE CriminalRecord; 2 3 • SELECT * FROM CriminalData1; 4 • SELECT * FROM CriminalData2; 5 </pre>	

Result

criminal_id	name	birth_place	dob	gender	blood_group	national_id	passport_id	threat_level	previous_occupation_name	previous_occupation_income	
1000	Ravi Kumar	Mumbai	1985-07-12	Male	A+	123456789	231283456	High	Construction Worker	35000	Se
1001	Priya Sharma	Delhi	1990-04-25	Female	B-	987654321	424987654	Severe	Sales Representative	45000	Da
1002	Rajesh Singh	Lucknow	1980-12-08	Male	O+	456789123	676456789	Low	Teacher	50000	Nu
1003	Anjali Gupta	Kolkata	1995-09-17	Female	A-	654321789	975654321	High	Software Engineer	75000	Do
1004	Mohan Sharma	Chennai	1988-03-04	Male	AB+	789123456	275789123	Severe	Chef	40000	La
1005	Sunita Reddy	Hyderabad	1992-11-21	Female	O-	234567890	274234567	Low	Retail Salesperson	30000	Gr
1006	Rohit Patel	Ahmedabad	1983-06-30	Male	B+	345678901	115345678	High	Engineer	70000	Plk
1007	Nisha Gupta	Jaipur	1993-08-14	Female	AB-	567890123	41567890	Severe	Accountant	55000	Ph
1008	Sanjay Yadav	Patna	1987-02-19	Male	A+	890123456	406890123	Low	Electrician	42000	PL
1009	Aishwarya Gupta	Bangalore	1998-05-03	Female	O+	123890456	288678901	Severe	Marketing Manager	60000	Sa
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Criminal Data 2

```

1 • USE CriminalRecord;
2
3 • SELECT * FROM CriminalData1;
4 • SELECT * FROM CriminalData2;
5

```

Result

criminal_id	name	birth_place	dob	gender	blood_group	national_id	passport_id	threat_level	previous_occupation_name	previous_occupation_income	
2001	Amit Sharma	Delhi	1980-02-10	Male	O+	12345678901	98765432101	Low	Teacher	40000	
2002	Pooja Singh	Mumbai	1992-07-15	Female	A-	98765432102	12345678902	High	Nurse	35000	
2003	Rajesh Kumar	Chennai	1985-11-25	Male	B+	65432198703	34567891203	Severe	Engineer	75000	
2004	Mohan Sharma	Chennai	1988-03-04	Male	AB+	789123456	275789123	Severe	Chef	40000	
2005	Sunita Reddy	Hyderabad	1992-11-21	Female	O-	234567890	274234567	Low	Retail Salesperson	30000	
2006	Sneha Gupta	Hyderabad	1995-03-20	Female	O+	78901234506	67890123406	Low	Artist	25000	
2007	Anil Verma	Lucknow	1983-12-12	Male	B-	89012345607	78901234507	High	Police Officer	60000	
2008	Rita Sharma	Jaipur	1993-05-18	Female	A-	90123456708	89012345608	Severe	Doctor	80000	
2009	Sanjay Yadav	Patna	1987-02-19	Male	A+	890123456	406890123	Low	Electrician	42000	
2010	Suman Gupta	Ahmedabad	1991-10-30	Female	AB+	23456789010	12345678910	High	Banker	70000	
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	

Union



```

5
6 • SELECT criminal_id as id, name, current_occupation_name as occupation FROM CriminalData1 WHERE current_occupation_name != "Doctor"
7 UNION
8 SELECT criminal_id, name, current_occupation_name FROM CriminalData2 WHERE current_occupation_name NOT LIKE "%Engineer%";
9

```

Result

Result Grid



Filter Rows:

	id	name	occupation
▶	1000	Ravi Kumar	Security Guard
	1001	Priya Sharma	Data Analyst
	1002	Rajesh Singh	Nurse
	1004	Mohan Sharma	Lawyer
	1005	Sunita Reddy	Graphic Designer
	1006	Rohit Patel	Pilot
	1007	Nisha Gupta	Pharmacist
	1008	Sanjay Yadav	Plumber
	1009	Aishwarya Gupta	Sales Manager
	2002	Pooja Singh	Doctor
	2003	Rajesh Kumar	Architect
	2004	Mohan Sharma	Lawyer
	2005	Sunita Reddy	Graphic Designer

Result Grid

Filter Rows:

id	name	occupation
1006	Rohit Patel	Pilot
1007	Nisha Gupta	Pharmacist
1008	Sanjay Yadav	Plumber
1009	Aishwarya Gupta	Sales Manager
2002	Pooja Singh	Doctor
2003	Rajesh Kumar	Architect
2004	Mohan Sharma	Lawyer
2005	Sunita Reddy	Graphic Designer
2006	Sneha Gupta	Writer
2007	Anil Verma	Detective
2008	Rita Sharma	Surgeon
2009	Sanjay Yadav	Plumber
2010	Suman Gupta	Investment Ana...

Intersect All

12

13 • `SELECT name, dob FROM CriminalData1 WHERE YEAR(dob) < 1990`

14 ✖ `INTERSECT ALL`

15 `SELECT name, dob FROM CriminalData2;`

16

Result

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	name	dob
▶	Mohan Sharma	1988-03-04
	Sanjay Yadav	1987-02-19

Except

20

21 • `SELECT name FROM CriminalData1`

22 ✖ `EXCEPT`

23 `SELECT name FROM CriminalData2;`

24

Result

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	name		
▶	Ravi Kumar		
	Priya Sharma		
	Rajesh Singh		
	Anjali Gupta		
	Rohit Patel		
	Nisha Gupta		
	Aishwarya Gupta		

Arithmetic Operations

```
28
29 • SELECT
30 (SELECT AVG(current_occupation_income) FROM CriminalData1) / (SELECT MIN(current_occupation_income) FROM CriminalData2)
31 AS Result;
32
```

Result

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	Result		
▶	2.32666667		

Date Operations

```
35
36 • SELECT criminal_id, name, ROUND(DATEDIFF(CURRENT_TIMESTAMP, dob)/365, 0) AS age FROM CriminalData1;
37
```

Result

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	criminal_id	name	age
▶	1000	Ravi Kumar	38
	1001	Priya Sharma	33
	1002	Rajesh Singh	43
	1003	Anjali Gupta	28
	1004	Mohan Sharma	36
	1005	Sunita Reddy	31
	1006	Rohit Patel	40
	1007	Nisha Gupta	30
	1008	Sanjay Yadav	37
	1009	Aishwarya Gupta	25