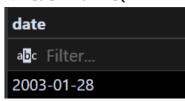
Name	Hatim Yusuf Sawai	
UID no.	2021300108	
Experiment No.	9	

AIM:	Date & Time Operators				
PROBLEM STATEMENT:	Implement different types of date-time operators on user data in MySQL				
THEORY:	In SQL, dates are complicated, since while working with database, the format of the date in table must be matched with the input date in order to insert. In various scenarios instead of date, datetime (time is also involved with date) is used.				
	In MySql the default date functions are:				
	1. CURDATE(): Returns current date				
	2. CURTIME(): Returns current time				
	3. NOW(): Returns current date & time				
	4. DATE(): Returns date part of the date/time expression				
	5. TIME(): Returns time part of the date/time expression				
	MySql Date Data-Types:				
	1. DATE - format YYYY-MM-DD				
	2. DATETIME - format: YYYY-MM-DD HH:MI:SS				
	3. TIMESTAMP - format: YYYY-MM-DD HH:MI:SS				
	4. YEAR - format YYYY or YY				

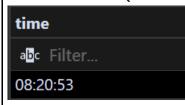
QUERIES:

Default Date Functions:

1. SELECT DATE('2003-01-28 08:20:53');



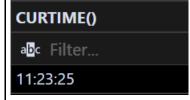
2. SELECT TIME('2003-01-28 08:20:53');



3. SELECT CURDATE();



4. SELECT CURTIME();



5. SELECT NOW();



Table date Function Queries:

- 1. Add birth date column to patient table with data type 'date': ALTER TABLE patient ADD COLUMN birthdate DATE AFTER Age;
- 2. UPDATE patient SET birthdate = '2004-03-26' WHERE P_id=6;

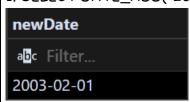
Pname	birthdate		
a <mark>b</mark> c Filter	abc Filter		
Virinchi	2003-01-28		

3. Show Formatted birth date of patient with id = 6: SELECT Pname, DATE_FORMAT(birthdate, '%W %M %D %Y') AS birthdate FROM patient WHERE P_id=6;

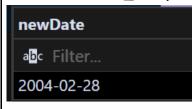
Pname	birthdate
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
Virinchi	Tuesday January 28th 2003

Date Addition/Subtraction Functions:

1. SELECT DATE_ADD('2003-01-29', INTERVAL 3 DAY) AS newDate;



2. SELECT DATE_SUB('2004-03-03', INTERVAL 4 DAY) AS newDate;



CONCLUSION:

In this experiment, we learned to use different types of date time operators and functions in mysql to retrieve specific date/time information from tables.