



INDIAN SCHOOL NIZWA

INFORMATICS PRACTICES

CHAPTER 6 - MYSQL Functions – Revision - Worksheet 1 CLASS XII

Date functions	String functions	Mathematical function
Curdate()/Current_date() - Returns the current date in 'YYYY-MM-DD' format. SELECT CURDATE(); 2024-9-15	Ucase() /upper()-Returns the argument after converting it in uppercase. SELECT UCASE('informatics'); INFORMATICS	pow()/power() SELECT POWER (3 , 2)
now() - Returns the date and time at which the function executes. SELECT NOW(); 2020-05-06 16:13:41	lcase()/lower() - Returns the argument after converting it in lowercase. SELECT LOWER('MR.GANDHI') mr.gandhi	round() - Rounds the argument to the zero decimal place SELECT ROUND(4.46,1) 4.5 SELECT ROUND(122.34, -1); 120 SELECT ROUND(1302.298, -3); 1000
dayname() - Returns the name of the weekday SELECT DAYNAME('2020-05- 19'); Tuesday	concat()-Returns the string that results from concatenating one or more arguments. Select concat('Informatics','Practices') InformaticsPractices	truncate() - Truncates the argument to specified number of decimal places. SELECT TRUNCATE(4.46,1) 4.4
date() - Extracts the date part of a date or datetime expression SELECT DATE('2020-05-30 10:25:51') 2020-05-30	substr/mid/substring- Returns the specified number of characters from a particular position of a given string. SELECT SUBSTR('INFORMATICS',3,4); FORM	mod()-Returns the remainder of a number divided by another number. SELECT MOD (17,5) ; 2
year() SELECT YEAR('2020-05-19') 2020	instr()-Returns the index of the first occurrence of substring. SELECT INSTR('Informatics','mat'); 6	sqrt() – Returns the square root of a non-negative number SELECT SQRT(25); 5
month() SELECT MONTH('2020-05-19'); 5	length()-Returns the length of a string in bytes/no.of characters in string. SELECT LENGTH('INFORMATICS') 11	sign() - Returns sign of a given number. SELECT SIGN(-145); -1
day()/ dayofmonth() - Returns the day of the month for a specified date. SELECT DAYOFMONTH('2020-05-19'); 19	left()-Returns the given number of characters by extracting them from the left side of the given string SELECT LEFT('INFORMATICS', 3) INF	right()-Returns the given number of characters by extracting them from the right side of the given string SELECT RIGHT('INFORMATICS', 4) TICS
Monthname() SELECT MONTHNAME('2020- 05-19'); May		

<p>dayofweek() - Returns the week day number (1 for Sunday,2 for Monday 7 for Saturday) for a specific date.</p> <pre>SELECT DAYOFWEEK('2020-05-01'); 1</pre>		
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	<pre>ltrim - Removes leading spaces. SELECT LTRIM(' INFORMATICS'); INFORMATICS rtrim()-Removes trailing spaces. SELECT RTRIM('INFORMATICS '); INFORMATICS trim()-Removes leading and trailing spaces. SELECT TRIM(' INFORMATICS '); INFORMATICS</pre>	
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1. Consider the table student

Rollno	Name	Marks	Grade	Fees	Subject	DOB
1	Misthi	30	C	6000	Commerce	2008-01-12
2	Joseph	48	B	16000	Arts	2008-07-16
3	Yadav	66	A	4800	Science	2007-04-16
4	Tripthi	24	C	12500	Commerce	2007-06-26
5	Gupta	NULL	A	10500	Commerce	2008-06-06

Write SQL queries to perform the following operations:

- Display the first 3 characters of all names in uppercase..
- Display the details of those students who are born in the month of June.
- Display the 2nd, third and fourth characters of name
- Display the month name from dob
- Display the name and fee together in lower case
- display the year of birth of the eldest student.

Write the output of the following

- SELECT monthname(DOB) FROM student;
- Select mod(fees,10) FROM STUDENT;
- SELECT INSTR(SUBJECT,'r') FROM student;
- SELECT LEFT(Name,2) FROM student;
- Select lower(Grade) FROM Student;

- i. Write suitable SQL queries for the following:
- ii. To calculate the exponent for 3 raised to the power of 4.
- iii. To display current date and time.
- iv. to retrieve the current year.
- v. To round off the value: 34.4567 to 2 decimal place
- vi. To remove all the probable leading and trailing spaces from the column userid of the table named user.
- vii. To display the length of the string „FIFA World Cup“.
- viii. To calculate the remainder when 3459 divided by 10
- ix. To retrieve the word ‘INDEPENDENCE’ FROM “HAPPY INDEPENDENCE DAY
- x. Display the length of the substring starting from "Reality" to the end of the string from the main string “Virtual Reality”;

Write the output of the following SQL queries:

- i. Select length(“##Independence Day##”); (# represent a space)
- ii. Select mod(15,3)
- iii. Select pow(3,4);
- iv. Select round(1769.812,-2);
- v. Select TRUNCATE(8.975,2);
- vi. Select INSTR(‘INTERNATIONAL’,’NA’);
- vii. Select LEFT(CONCAT(‘COMPUTER’,’SCIENCE’),5);