



INDIAN SCHOOL NIZWA

INFORMATICS PRACTICES

Chapter 6 SQL FUNCTIONS – WORKSHEET 1 CLASS XII

- 1 Write outputs for SQL queries (i) to (iii) which are based on the given table Employee:

E_ID	FNAME	LNAME	SALARY	JOINING_DATE	DEPARTMENT
1	Mansa	Singh	100000	2014-02-20	HR
2	Nikita	Kapoor	800000	2016-02-11	Admin
3	Vaibhav	Singh	300000	2017-02-21	HR
4	Atul	Gupta	500000	2014-02-20	Admin
5	Jai	Kumar	200000	2016-02-11	Admin

- (a) SELECT INSTR(LNAME, 'a') FROM EMPLOYEE WHERE DEPARTMENT <> 'HR';
(b) SELECT POW(DAY(JOINING_DATE), MONTH(JOINING_DATE)) FROM EMPLOYEE WHERE SALARY > 200000;
(c) SELECT * FROM EMPLOYEE WHERE MID(LNAME, 4, 2) = 'gh';

- 2 Consider the table Training

Training_id	Name	Email_id	Topic	City	Fee
ND01	Mr. Rajan	raj@gmail.com	Cyber Security	New Delhi	10000
GU01	Ms. Urvashi	urv@gmail.com	ICT in Education	Kochi	15000
FD01	Ms. Neena	neena@gmail.com	Cyber Security	Faridabad	12000
ND02	Mr. Vinay	NULL	ICT in Education	New Delhi	13000
GU02	Mr. Naveen	nav@gmail.com	Cyber Security	Gurugram	NULL

Predict the output for the following:

- Select substr(City, 2, 4) from training where topic <> "Cyber security";
- Select name from training where instr(email_id, "@") > 4;
- Select mod(fee, 10) from training;

- 3 Consider the given SQL string:

"12#All the Best!". Write suitable SQL queries for the following:

- Returns the position of the first occurrence of the substring "the" in the given string.
- To extract last five characters from the string.

- 4 Write the output of the following SQL queries:

- Select length("###Vasudhaiva#Kutumbakam"); (# represent a space)
- Select pow(4, 2);
- Select round(980.8, -2);

- 5 Attempt the following questions:

- Write a SQL query to calculate the remainder when 15 is divided by 4.
- Write a SQL query to retrieve the current year.
- Write a SQL query to extract the first three characters from the string, 'Hello, World!'.
- Write a SQL query to convert the text in the 'description' column of the 'product' table to uppercase.
- Write a SQL query to display the position of '-' in values of ACC_NO column of table Bank.

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Write suitable SQL queries for the following:

- To calculate the exponent for 3 raised to the power of 4.
- To display current date and time.
- To round off the value: 34.4567 to 2 decimal place
- To remove all the probable leading and trailing spaces from the column userid of the table named user.
- To display the length of the string „FIFA World Cup“.

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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 the students of commerce stream.
- Display the details of those students who are born in the month of June.
- Display the details of those students who pay fees between 10000 and 20000.
- Display the names of the students whose marks are not available.

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Consider the table candidate

Sn	CName	Age	Salary	Address	DOB
1	Rohan	20	50000	VIKAS PURI	1990/01/20
2	Mukesh kumar	25	25000	CIVIL LINES	1999/12/13
3	Kamya	40	27000	MOTI NAGAR	2005/01/01
4	Ruhi	15	40000	ROHINI	2008/08/24
5	Saloni	30	33000	SURAJ Colony	2000/03/07

Write SQL queries for the following

Display all the names in upper letters

Display Name and total characters in Name together

Display 3rd,4th,5th characters of all the names

Display day name of DOB of each candidate

Display name,age and salary of a person who was born between 1990 and 2008.

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Write the output of the following

queries

- Select MID('VisitIndia',6,5);
- Select ROUND(89.387,2);
- Select INSTR('COMPUTERCLASS','PUT');

7. Select

RIGHT(CONCAT('PRACTICES','INFORMATICS'),5);

8. Select MONTH('2015-01-16');

9. Select INSTR('INTERNATIONAL','NA');

10. Select LENGTH(CONCAT('NETWORK','ING'));

11. Select ROUND(563.345,-2);

12. SELECT POWER(4,-2);

4. Select
DAYOFMONTH('2016-01-
20');
5. Select
TRUNCATE(8.975,2);
6. Select MID('HONESTY
WINS',3,4);

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If the table Medicines contains 4 records and Aamir executed the following queries, find the output of both the queries: (i) Select mod(9,2) from dual; (ii) select mod(9,2) from medicines;