



INDIAN SCHOOL SOHAR
UNIT TEST (2017-2018)
INFORMATICS PRACTICES

Class: XI
Date: 17-05-17

Marks: 50
Time: 2 hours

Instructions:

- a. All the questions are compulsory.
- b. Answer the questions after carefully reading the text.

1. Answer the following questions:

- a) What is SQL? What are the classifications of SQL commands? 2
- b) What is the purpose of using MySQL? 1
- c) Write any four advantages of DBMS. 2
- d) Define the Alternate key and Candidate key with suitable examples. 2
- e) What is the degree and cardinality of a relation having 6 rows and 4 columns? 1
- f) Categorize the following commands under DDL and DML: 2
DELETE, DROP, TRUNCATE, SELECT, UPDATE, ALTER, CREATE, INSERT
- g) Which function is used for displaying , 2
 - i) Current date and time
 - ii) Name of weekday.
- h) Which comparison operator is used for comparing 2
 - i) Patterns
 - ii) List of values
- i) What is a Column alias? How is it useful? 2
- j) Differentiate between LTRIM and RTRIM. 2
- k) What is NULL? What happens when you perform arithmetic calculations on NULL value? 2

2. Write SQL Commands for the following on the basis of information given below:

Teacher: Table

No	Tname	Age	Department	DOJ	Salary	Sex	Grade
1	Nita	40	Physics	Null	12000	F	A
2	Rishab	45	Computer Sc	24/03/98	20000	M	B
3	Swetha	30	Chemistry	12/12/96	15000	F	A
4	Anand	35	Null	05/09/97	40000	M	B
5	Dimple	25	Computer Sc	27/06/98	35000	F	A
6	Arvind	50	Mathematics	31/07/97	45000	M	B
7	Jitin	29	Chemistry	02/02/99	30000	M	C

- a) Show details of mathematics and chemistry Teachers with their salary in ascending order and age in descending order. 1
- b) List the name and salary of non-mathematics Teachers whose salary is less than 35000. 1
- c) List the various departments available. 1
- d) List the name in uppercase and department in lowercase of all teachers. 1
- e) List the no, name, age and department of teachers whose department is unknown. 1
- f) List the department of female teachers who have minimum 5 characters in their names. 1

- g) List the details of teachers whose salary is in range 20000 to 30000 sorted by date of join. 1
- h) Display Name and Position of 'i' in names of all teachers. 1
- i) List the salary of teachers who have not chosen physics and mathematics as the subject. 1
- j) List the no, name and grade of teachers whose department starts with C or M. 1
- k) List the name and date of join of all A grade teachers (if date of join is not mentioned, replace with not-given). 1
- l) Display 1st three characters of names in uppercase joined with first four characters of department for all teachers. 1
- m) Display name, department name and bonus (assume bonus is 20% of salary) of all teachers. 1
- n) Remove the leading and trailing spaces of department of all male teachers aged above 40. 1
- o) List the details of male teachers joined before 1998 sorted by age in descending order. 1
- p) Write a query which displays the month of joining and length of teacher's name. 1
- q) Display 4 characters extracted from 5th right character onwards from the department name. 1
- r) List the details of teachers whose age is 25, 35 and 45 sorted by name in descending order. 1
- s) List the name, department name and salary of chemistry teachers whose grade is either A or B. 1
- t) Display a Report as: 1
`<name>joined on<dateofjoin>of<department>department is getting a salary<salary>`

3. Write the output of the following Queries:

- a) Select Char(84,101,83,83.7) as Output; 1
- b) Select Substr('Informatics Practices',3,4); 1
- c) Select Truncate(1236.4051,3); 1
- d) Select Round(1567.817,2); 1
- e) Select Sign(-23); 1

4. Remove the errors (if any) from the following queries and rewrite the corrected ones.

- a) Select Concat("Indian",Uppercase('School')); 1
- b) Select Cur_date(); 1
- c) Select Mid('Informatics',2); 1
- d) Select Tname from teacher where No = = 2; 1
- e) Select Mod(dayofmonth('2016-05-10')%6); 1

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