Std. 11   Time : 3 hrs.
11-9-2015   Half Yearly Examination in INFORMATICS PRACTICE   M. Marks
: 70

1. Write any two differences between:-
[10] a)   / and % operator
   b) PRIMARY KEY and UNIQUE CONSTRAINT
   c) Delete command and Drop table command
   d) Round ( ) and Truncate ( )
   e) Relational operator and Logical operator.

2. Correct the errors in the given SQL statements   [5]
   a) Select empno and empname from emp where empno is 45;
   b) delete * from emp where empno =NULL;
   c) Select * from emp where ename like "E% and like "R";
   d) Select empno from emp order by empno ASCE where empno>1;
   e) Alter emp add [SALARY FLOAT(5,1)];
   f) Insert in emp value(1, "ROHIT");

3. Name the function used for   [4]
   a) Date and time at which the function executes.
   b) Sign of number
   c) Remainder of two numbers
   d) A substring starting from specified position
   e) Number of characters in a string
   f) Removing leading and trailing blank spaces from the string
   g) Character for each ASCII code
   h) Joining the strings

4. Write queries for the following using functions   [8]
   a) Display 'MR. OBAMA' into lowercase.
   b) Display 4 characters from 3rd left character onwards from string 'ABCDEF';
   c) Remove leading spaces of the string '   RDBMS'.
   d) Display the position of string 'LE' in the field JOB of table emp.
   e) To extract 2 digit year from a string 'USS/23/67/09'.The last two characters tell the year.
   f) To extract a substring from string 'Quadratically' which should be 6 characters long and start from
       5th character of string.
   g) To display current date on your system.
   h) Display name of weekday.

5. a) Which comparison operator is used for following
      i) Patterns   ii) Null values   iii) Ranges   iv) list of values   [2]

b) Which keyword eliminates the duplicate data from a query result? [½]
c) Which keyword returns duplicate output rows in a query result? [½]
d) Define the terms a) Constraint   b) Function. [2]
e) Sharmila wants to make the database named 'COMPANY' active and display the names of all the tables in it. Write MySQL commands for it. [2]
f) Name the SQL commands used to: [2]
    i. Physically delete a table student from the database.
    ii. Display the structure of a table.
g) Write one similarity between UNIQUE and PRIMARY KEY constraints. [1]

6. a) Write the output of the following commands. [4]
    i.Select concat(concat('INFORM', 'ATICS'), 'PRACTICES');
    ii.Select substr('ABCDEFG', -5, 4);
    iii.Select INSTR('CORPORATE FLOOR', 'OR');
    iv.Select ucase('abc123ARST');
    v.Select SGN(-15);
    vi.Select power(4, 3);
    vii.Select INSTR(SUBSTR('INFORMATCS PRACTICES' 3, 2), 'O');
    viii.Select DAYOFWEEK(NOW( ));

b) The Doc_name Column of table Hospital is given below:

The Doc_name Column of a table Hospital is given below :

Doc_name
Avinash
Hariharan
Vinayak
Deepak
Sanjeev

Based on the information, find the output of the following queries:
    i.   SELECT doc_name FROM Hospital WHERE doc_name like '%v';
    [1]
    ii.   SELECT doc_name FROM Hospital WHERE doc_namelike '%e%';
    [1]

7. a) Write one similarity and one difference between CHAR and VARCHAR data types. [2]
  b) Consider the following table named "GARMENT". Write command of SQL for (i) to (iv) and output for (v) to (vii).
    Table: GARMENT

GCODE	GNAME	Size	Colour	PRICE
111	TShirt	XL	Red	1400.00
112	Jeans	L	Blue	1600.00
113	Skirt	M	Black	1100.00

114	Ladies Jacket	XL	Blue	4000.00
115	Trousers	L	Brown	1500.00
116	Ladies Top	L	Pink	1200.00

  i.To display names of those garments that are available in 'XL' size   [1]

  ii.To display codes and names of those garments that have their names starting with 'Ladies'.[1]

 iii.To display garment names, codes and prices of those garments that have price in the range 1000.00 to 1500.00(both 1000.00 and 1500.00 inclusive).   [1]

 iv.To change the colour of garment with code as 116 to "Orange".   [1]

  v.SELECT GNAME FROM GARMENT WHERE GCODE IN (111, 116)   [1]

 vi.SELECT RIGHT(Colour, 2) FROM GARMENT WHERE GCODE=111;   [1]

vii.SELECT GNAME FROM GARMENT WHERE SIZE IN ('M', 'L') AND PRICE>1100;[1]

8.   a)   Write MySQL command to create the table DEPARTMENT with given constraints.[3]

COLUMN_NAME	DATATYPE(SIZE)	CONSTRAINT
DepartmentID	Int(4)	Primary Key
DepName	Varchar(50)	Not Null
ManagerID	Char(4)	
Location	Varchar(30)	UNIQUE

  b)   Write MySQL command to create the table STUDENT with given constraint.   [3]

COLUMNNAME	DATATYPE	SIZE	CONSTRAINT
RNO	Int	4	Primary
Name	Varchar	20	Not Null
Class	Varchar	10	
Marks	Float	10, 2	Check (marks greater than 80 but less than 100)
Grade	Varchar	1	Default with the value A

9.   Consider a table Empl as given below: [12]

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	1600.00	300.00	30
8521	SETH	SALESMAN	8698	1991-02-22	1250.00	500.00	30
8566	MAHADEVAN	NANAGER	8839	1991-04-02	2985.00	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-82	1250.00	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8882	SHIVANSH	MANAGER	8839	1991-06-09	2400.00	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20
8839	AMIT	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500.00	0.00	30

  a)   Display all the records (all columns) from table empl.

b) Display EmpNo and EName of all employees from table empl.
c) List all department numbers in table empl.
d) List all unique department numbers in table empl.
e) Write a query to display the name, job, title and salary of employee who do not have Mgr.
f) Write a query to display the name of employee whose name contains 'A' as third alphabet.
g) Write a query to display the name of employee who is having 'L' as any alphabet of the name.
h) Write a query to display EName and Sal of employees whose salary is greater than or equal to 2200 from table empl.
i) Write a query to display details of employees who are not getting commission from table empl.
j) Write a query to display employee name and salary of those employee who don't have there salary in the range of 2500 to 4000.
k) Write a query to display the name of employee whose name contains 'T' as first alphabet.
l) Write a query to display the name of employee whose name contains 'M' as first alphabet and 'L' as the third alphabet.

-x-x-x-x-x-x-x-