

Sample Paper - 2015
Class – XII
Subject – INFORMATICS PRACTICES

TIME :

M.M. :50

1. Answer the following:

(a) If a database “Library” exists, which Mysql command helps you to delete that database.

1

(b) Which clause is used to restrict the results on group?

1

(c) Priyanka, the teacher of Meerut International School, created a table ‘Class’. Marks is a column of this table. To find that whose marks have not been entered she wrote the following query.

Select * from class where Marks =0;

Help Priyanka to run the query by removing the errors and rewriting it.

1

(d) A table “Emp” has one of its column named Salary. Give the Command in Mysql to increase the employees by 10%

1

(e) Define the following :

2

(i) Foreign key

(ii) Alternate Key

(f) Which MySQL keyword is used to sort the rows in the output?

1

(g) How can you delete the rows with marks below 33 in the ‘Student’ table?

1

(h) Write MySQL statement to change the first name “Madhur” to “Mridul” in the “FName” column in the “Student” table.

1

(i) What happens if you give a CREATE TABLE statement to create a table named “ITEM” and a table named “ITEM” already exists?

1

2. (a) Name a (i) date function that returns a number (ii) String function that returns a number.

2

(b) Write the output of the following SQL queries:

2

(i) SELECT POWER(5,3);

(ii) SELECT SUBSTR(‘Barak Obama’,2,3);

(iii) SELECT TRUNCATE (292.672,1);

(iv) SELECT CHAR(97,120,78);

(c) Consider the table CRICKET given below .Write the commands in SQL for (i) to (iv) and output for (v) to (viii).

TABLE CRICKET

www.cbseguess.com

OUR EDUCATIONAL PORTALS

www.icseguess.com | www.niosguess.com | www.indiaguess.com | www.aipmtguess.com | www.iitguess.com |
www.ignouguess.com | www.magicsense.com

S.NO	PLAYER	AGE	CITY	RUNS	WICKETS
1	Sachin Tendulkar	39	Mumbai	15216	105
2	Virender Sehwag	37	Delhi	6244	82
3	M.S.Dhoni	32	Rachi	5219	
4	Rahul Dravid	37	Banglore	9325	11
5	Yuvraj Singh	32	Mumbai	8244	126

- (i) To display all the information about the players who lived in Mumbai city
- (ii) To display Players name, age and runs who have scored more then 8000 runs.
- (iii) To display Player name and city of those players who have not taken any wickets.
- (iv) To count the numbers of players of each city.
- (v) Select Min(age) from Cricket;
- (vi) Select Max(runs)from cricket;
- (vii) Select Count(Distinct (city)) from cricket;
- (viii)Select Avg(Wickets) from cricket;

3. (a) Write a SQL command to create the table 'Passenger' with the following structure

2

TABLE :PASSENGER

Field Name	Filed Type	Constraint
P_no	Varchar(8)	Primary Key
P_name	Varchar(25)	Not Null
Train_No	Integer(5)	
Age	Integer(3)	
Class	Varchar(8)	
Fare	Integer(4)	

(b)In the database ,there are two tables, "Customer" and "Bill" as shown below:

CUSTOMER

CUST_ID	C_NAME	CITY	PHONE
1	Ayush	Panipat	9812015367
2	Sanjay	Rohtak	9466623546
3	Rajeev	Sonepat	9616254447

BILL

Bill_No	Bill_Dt	Cust_Id	Bill_Amt
1	2010.11.05	2	2400
2	2010.08.10	1	1200
3	2010.09.07	3	1500
4	2010.12.23	1	1800
5	2010.10.17	2	2000

- How many rows and columns will be there in the Cartesian product of these two tables.
- Identify the degree of Table-Bill and cardinality of Table-Customer.
1+1

(c) Consider the tables Student and House given below: **HOUSE**

H_CODE	HOUSE_NAME
H1	VIRJANAND
H2	SHARDHANANAD
H3	DAYANAND

STUDENT

ADM_NO	NAME	CLASS	H_CODE
1001	ANKITA	VII	H2
1002	RAHUL	IX	H1
1003	SAHIL	VII	H1
1004	ANUJ	X	H3

1005	DEEPTI	IX	H2
------	--------	----	----

With reference to these tables, write commands in SQL for (i) and (ii) and output for (iii) given below

6

- (i) Display the Adm_No, Student Name and House name of the students of class VII.
- (ii) Count the numbers of student of SHARDHANANAD house
- (iii) Select House_Name, Count(*) from student,house where student.H_code=house.H_Code group by H_Code;

4. (a) What message will be displayed after the execution of the following code?

```

2
int Age = 24,Relaxation=6;
int ModiAge = Age- Relaxation;
if (ModiAge < 18)
    JOptionPane.showMessageDialog(Null, " Not Eligible");
else
    JOptionPane.showMessageDialog(Null, "Eligible");

```

(b) Rewrite the following program code using an if statement:

```

2
int C = JComboBox1.getSelectedIndex();
switch( C )
{
    case 0 : FinalAmt = BillAmt; break;
    case 0 : FinalAmt = 0.9 * BillAmt; break;
    case 0 : FinalAmt = 0.8 * BillAmt; break;
    default : FinalAmt = BillAmt;
}

```

(c) Find the output of the following code:

```

2
int First = 7;
int Second = 73;
First = First + 1;
If(First + Second > 90)
    JLabel.setText("Value is 90");
else
    JLabel.setText(" Value is not 90");

```

(d) What value is assigned to **num** in the following code fragment, when choice equals 2?

```

2
switch (choice)
{
    case 1: num=1; break;
    case 2: num=3; break;
    case 3: num=2; break;
    default: num=0;
}

```

(h) What will be the value of a and b after execution of following code;

```

2
int a = 1, b b = 2;
if ( ++b < 50

```

```
{
    a *= b;
}
```

5.(a) What is the purpose of if statement? Describe the different forms of if statement.

2

(b) What is the purpose of default clause in a switch statement.

2

(c) Axis bank wants to calculate the compound interest of his clients. He ask software programmer to design an interest calculator. Rate of Interest will be calculate according to following criteria:

Amount	Rate of Interest
10000-20000	7%
20001-50000	8%
50000-100000	10%
Above 100000	15%

Amount

Calculate

Clear

Exit

5 yrs
 10 yrs
 15 yrs

Simple Interest is

(a) Write the code to make the textfields for rate and d interest uneditable

1

(b) Write the code to do the following:

(i) When calculate button is clicked the rate of interest and interest amount should be calculated as per above criteria and displayed in the respective text fields.

4

(ii) Close the application when Exit Button is clicked.

1

(You can assume any suitable names for various control on the form)

Name Bhabajyoti S. Baruah
Email bhabajyoti2012@gmail.com