



Maheshwari Public School, Ajmer

Pre mid Test; Session: 2018-2019

Class: XII; Subject: Informatics Practices

Maximum Time: 45 min.

Max. Marks: 20

General Instructions:

- i) This question paper consists of 2 Questions.
- ii) All questions are compulsory. Marks are indicated against each question.

Q1. Answer the following questions-

- a) What is the importance of primary key in a table? Is it possible to create two field as a primary key. Explain with a suitable example? 2
- b) Write brief notes on any two Constraints in MySQL with example? 2
- c) What is a Equi and Non-Equi join? Give example 2
- d) Room_No, Cust_Name, Room_Type and Room_Rent of table "HOTEL" are given below:

Table : HOTEL

| Room_No | Cust_Name | Room_Type | Room_Rent |
|---------|-----------|------------|-----------|
| 204 | Rajesh | Single | 700 |
| 308 | Anuja | Double AC | 1600 |
| 105 | Vinamra | Single NAC | 500 |
| 202 | Soma | Single | 600 |

Based on this information, find output of the following queries:

SELECT Room_Type, SUM(Room_Rent) FROM hotel GROUP BY Room_Type;

SELECT Room_no FROM hotel WHERE Cust_Name LIKE '%a%'; 2

- e) Write any 2 difference between CHAR and VARCHAR datatypes? 1
- f) Why do we use ROLLBACK statement? 1
- g) What is foreign key? How do we define a foreign key in our table? 1
- h) Rajeev have a table "stock" in a database has 5 columns and 17 records. Then he add 2 column and delete 5 records. What is the degree and cardinality of this table now? 1

Q 2 a) Study the following table TEACHER and SALARY and write the SQL commands for the questions (i) and (ii) and give outputs for SQL queries (iii) and (iv)

Table : TEACHER

| SID | NAME | DEPT | SEX | EXPERIENCE |
|-----|-----------|-----------|-----|------------|
| 101 | Siddharth | Computer | M | 12 |
| 104 | Raghav | Physics | M | 5 |
| 107 | Naman | Chemistry | M | 10 |
| 114 | Nupur | Computer | F | 3 |
| 109 | Janvi | Physics | F | 9 |
| 105 | Rama | Accounts | M | 10 |
| 117 | James | Computer | F | 3 |
| 111 | Binoy | Accounts | F | 12 |
| 130 | Samuel | Computer | M | 15 |

Table: SALARY

| SID | BASIC | ALLOWANCE | DA |
|------------|--------------|------------------|-----------|
| 101 | 12000 | 1000 | 300 |
| 104 | 23000 | 2300 | 500 |
| 107 | 32000 | 4000 | 500 |
| 114 | 12000 | 5200 | 1000 |
| 109 | 42000 | 1700 | 200 |
| 105 | 18900 | 1690 | 300 |
| 130 | 21700 | 2600 | 300 |

- a) Display NAME and DA of all staff who are in Accounts department and having more than 10 years of experience. 2
- b) Display the NAME and salary of all staff working in physics department.
(SALARY=BASIC +ALLOWANCE+ DA) 2
- c) Select NAME, BASIC from TEACHER, SALARY
Where BASIC>20000 and TEACHER.SID =SALARY.SID; 2
- d) Select NAME, DEPT, SEX, BASIC, DA from TEACHER, SALARY
Where DEPT LIKE '%o%' and DA >=500 and TEACHER.SID=SALARY.SID; 2