INDIAN SCHOOL AL WADI AL KABIR

Worksheet, 2022-23

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| **Class: XI** | **SUB: INFORMATICS PRACTICES** | **Date of Completion:** |
| **Worksheet**  | **TOPIC: MySQL**  | 19-11-2023 |

**Section A**

Fill in the blanks:

 Define: DBMS

1. A table Sales has 10 rows and 5 columns. What is degree and Cardinality?
2. Write the differences between Primary Key and Unique Keys.
3. What do you mean by alternate key in SQL? Give example.
4. Define: Domain & Cardinality.
5. Mr. Vasanth a database developer created a table BOOKING in the database

TRAVELS. Later on he is unable to remember the size of columns and any

constraints defined in the Table . Suggest him the commands which he should use

to get the required information.

1. Ms. Rekha has a database named CompanyDB. She wants to display all the tables under the CompanyDB. Help her in writing commands to achieve the task.
2. Which commands are used to create in a database StockDB and open it?
3. What are the data types available in MySQL in creating a table with different columns?
4. Write the differences between Char and Varchar data type in My SQL
5. Is Null and 0 (Zero) are same in a My SQL table? Give reasons to your answer!

**Section B**

1. Create a table **MOVIE** with the following structure.

**Table : MOVIE**

Colunm\_Name DataType(size) Constraint

MOVIENO Int(5) Primary Key

MOVIENAME Text(50)

LANGUAGE Text(15)

RELEASE\_DATE date

ACTOR Numeric(5)

BOXOFFICE Numeric(10,2)

1. Create a table **Customer** with the following field(s) specifications:

**Table : Customer**

|  |  |  |
| --- | --- | --- |
| Field Name | Field Data Type and Size | Constraints |
| AccNo | Varchar(15) | Primary Key |
| CustName | Varchar(20) | Not Null |
| DateOpened | Date |  |
| CustCity | Varchar(20) |  |
| Contact | Int(10) | Unique |

1. Create a table **Flight** with the following field(s) specifications:

Table : **FLIGHT**

|  |  |  |
| --- | --- | --- |
| Field Name | Field Data Type and Size | Constraints |
| FCode | Char(5) | Primary Key |
| Airlines | Varchar(15) |  |
| Source | Varchar(25) |  |
| Destination | Varchar(25) | Not null |
| Fare | Double(8,2) |  |

Insert the following records in the above table **Flight**.

(‘IX240’, “Air India Express”, “Kochi”, “Kolkata”, 14300)

(‘AI736’, “Air India”, “Muscat”, “New Delhi”, 27850)

(“WY483”, “Oman Air”, “Dubai”, “Muscat”, 18425)

**Section C**

1. Write SQL commands for the questions from (i) to (xii) and write output(s) from (xiii) to (xv) based on the following table **DEPARTMENT**

**Table Name : DEPARTMENT (**Each carries 1 mark**)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **AdmNo** | **Name** | **Address** | **Join\_Date** | **Fee** | **Sem** | **Grade** |
| 1256 | Aditya | B-4, Dwarka, Mumbai | 2016-07-23 | 45000 | I | A1 |
| 5678 | Amit | Sec 5, R.K.Puram | 2015-06-15 | 35000 | III | B2 |
| 1425 | Karina | B3/2, V.Vihar, Patna | 2013-06-22 | 26000 | II | C1 |
| 8954 | Bikram | Sec 2, Pune | 2012-03-13 | 75000 | I | A2 |
| 1789 | Vijay | 123/a, Mumbai | 2014-02-17 | 35000 | II | B1 |
| 8376 | Ganesh | 53/2, Chandigarh | 2012-10-05 | 0 | Il | C3 |
| 2938 | Bharath | 11/7, Chennai | 2012-06-24 | 25000 | II | B2 |
| 6498 | Tanu | 117-n, Delhi | 2016-05-25 | 32000 | I | A1 |
| 5420 | Rajan | 56-e, Ahmedabad | 2014-02-27 | 32000 | III | B2 |
| 8567 | Anita | 73/c, Faridabad | 2012-08-22 | 38000 | I | C2 |

1. Display all the details.
2. Display Admission Number and Name of the students.
3. Display all the details of C1 grade students.
4. Display the Name and Join Date of all the students who have got A1 grades.
5. Display the Name and Fees of all the students who are studying in Semester I and III.
6. Increase the fee by 5% for all the students in Sem III
7. Add a column Contact to the table department
8. Delete the details of the student who got C2 grade
9. Make AdmNo column as primary key
10. Display the admission no., name and address of all the students who have paid the fees less than Rs. 30,000.
11. Display the details of students who have paid the fees in the range Rs. 30,000 – Rs. 40,000 (Both values inclusive).
12. Display the name and address of all the students who have paid the fees in the range Rs. Rs. 25,000 – Rs. 35,000 (Both values inclusive).
13. Display the details of all scholars whose date of join is before ’30/June/2012.
14. Display the Name. Fee and Grade of the student with the admission number 1425.
15. SELECT ADMNO, NAME FROM DEPARTMENT WHERE FEES > 40000;
16. SELECT NAME, JOIN\_DATE FROM DEPARTMENT WHERE JOIN\_DATE >= “2016-01-01”;
17. Write SQL Commands for (i) to (viii) on the basis of table:

 Table: FURNITURE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| NO | ITEM NAME | TYPE | DATEOFSTOCK | PRICE  | DISCOUNT |
| 1 | White Lotus | Double Bed | 2002-02-23 | 3000 | 25 |
| 2 | Pink feathers | Baby Cot | 2002-01-29 | 7000 | 20 |
| 3 | Dolphin | Baby Cot | 2002-02-19 | 9500 | 20 |
| 4 | Decent | Office Table | 2002-02-01 | 25000 | 30 |
| 5 | Comfort zone | Double Bed | 2002-02-12 | 25000 | 30 |
| 6 | Donald | Baby cot | 2002-02-24 | 6500 | 15 |
| 7 | Royal Finish | Office Table | 2002-02-20 | 18000 | 30 |
| 8 | Royal tiger | Sofa | 2002-02-22 | 31000 | 30 |
| 9 | Econo sitting | Sofa | 2001-12-13 | 9500 | 25 |
| 10 | Eating Paradise | Dining Table | 2002-12-19 | 11500 | 25 |

1. To show all the information about the Baby cots from the furniture table.
2. To list the itemname which are priced at more than 15000 from the furniture table.
3. To display the item name that contains letter “o”
4. To update price of the furniture by 300 whose price is more than 10000
5. Add a column item\_code to the furniture table.
6. To display the itemname where discount is in the range 25 to 30
7. Delete the rows that contain type as ‘sofa’
8. To display the structure of table furniture
9. Consider the table STUDENT



Find out the output for the following sql queries.

1. Select distinct(city) from student;
2. Select \* from student where gender=’M’;
3. Select Name, Class from student where dob<12-12-1994;
4. Select name from student where name like ‘%a’;
5. Select rollno,name from student where gender=’M’ and marks>500;