PRACTICAL INDEX SHEET

|  |  |
| --- | --- |
| **S.N.** | **Name of Program** |
| 1 | Write DDL statements to create table for CUSTOMER (cid, cname, age, address)  cid : integers value and is unique  name : stores maximum of 30 characters  age : integer value  address: stores at most 30 characters and only Kathmandu, Biratnagar, and Patan can be assigned. |
| 2 | Consider the following database:  Lecturer(lid, lname, semester)  Subject(scode, sname, credit)  Write the SQL statements to perform the following   1. Display the name of all Lecturers 2. Display the name of those Lecturers whose id is ‘105’ 3. List the name of all the subjects of 6 credit hours 4. Update or modify the name of lecturer ‘John’ with ‘Joseph’ 5. Delete the lecturer ‘John’ from the lecturer relation |
| 3 | Write DDL statements for creating the following table ‘Student’   |  |  |  |  | | --- | --- | --- | --- | | Name of Attributes | Data types | Size | Constraints | | Sid | Character | 6 | PRIMARY KEY | | Name | Character | 20 | NOT NULL | | Login | Character | 15 | UNIQUE | | Age | Number | 5 | DEFAULT 18 years | | GPA | Real number | 5,2 | BETWEEN 0 and 4 | |
| 4 | Consider the following database  Professor (ssn,profname,status)  Course (crcode,crsname,credits)  Write the SQL queries to perform the following:   1. Display the records of all Professors 2. Display the name of those Professors whose status is null. 3. List all the course names of 3 credit hours 4. List name and status of professor whose name is ‘Ram’ 5. Delete the professor “Hari” from the professor relation |
| 5 | Write the SQL queries to construct following tables Author(aid,name,age,gender,address)  Writes(bid,publishdate,bookname,ISBN)  Constraints for table are as follows:  a. Name should not be more than 20 charcters long  b. Age should be more than 10  c. Default gender should be ‘unknown’  d. ISBN cannot be null |

|  |  |
| --- | --- |
| 6 | Consider floowing database:  Actor(aid,name,age,gender,salary)  Movie(mid,title,budget)  Write the SQL statements to perform the following:   1. Display the information of female actors. 2. Display the id, name and salary of male actor with minimum salary 3. Display the name and budget of the movies which name start from ‘H’. 4. Display title of movie which budget is greater than 100000 5. Delete record of actor whose age is either less than 17 or name consists of letter ‘a’. |
| 7 | . a) Write SQL statements to create a table Employee with the following details.   |  |  |  |  | | --- | --- | --- | --- | | Attributes | Types | Size | Constraints | | Empid | Varchar | 10 | Primary key | | Empname | Varchar | 25 | Not null | | Gender | Varchar | 8 | Value must be “M”, “F” or “O” | | Age | Number | 5 | Age must be >16 |   b) Write DML to insert any five valid data.  c)Write SQL query to find the average age of the employees.  d) Write SQl query to display the information of youngest employee.  e) Write SQL query to find the number of employees working.  f) Write SQL query to find the list of employees whose name consists five characters. |
| 8 | Consider the description for INSTRUCTOR table   |  |  |  | | --- | --- | --- | | Field | Data Type | Constraint type | | SSN | Number (4) | PRIMARY KEY | | Name | Varchar (20) | NOT NULL | | Login | Varchar (10) | UNIQUE | | Age | Number (4) |  | | Salary | Salary Number (6,2) |  |   a) Write SQL query to create a table as described above.  b) Write down syntax for SQL query to add single record in the table you have just created.  c) Assuming data, write SQL query to display all the records of instructor whose login consists of letter ‘a’ and age is more than 35.  d) Assuming data, write SQL query to find SSN, name and age of instructor who is paid with highest salary.  e) List with description different aggregate functions that are supported by SQL. |

.………………..

Internal Examiner