**Higher Diploma in Information Technology**

**Database Management Systems**

**Year 1 Semester 2 – 2021**

**Worksheet 02 – Query with Conditions - I**

1. In worksheet 1, we created the Student and Course table. Insert the new rows into student table.

Student

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sno | Stu\_name | BDate | Address | Telephone |
| 100 | Nethu | 12th June 1990 | Kandy | 1234567890 |
| 101 | Kevin | 2nd July 1994 | Colombo | 3456789012 |
| 102 | Kithmi | 23rd January 1992 | Colombo | 3466768789 |
| 103 | Kevin | 5th August 1995 | Negombo | 1233454656 |
| 104 | Saman | 28th February 1992 | Kandy | 6879889564 |
| 120 | Saman | 6th June 1998 | Wattala | 2341231245 |
| 105 | Denuwan |  | Colombo |  |
| 107 | Kalum |  | Colombo | 1276534222 |
| 108 |  | 6th June 1998 |  |  |

Course

|  |  |  |
| --- | --- | --- |
| CourseNo | Course\_Name | Credits |
| C10 | Java | 4 |
| C12 | Database | 4 |
| C14 | System Design | 4 |
| C16 | Web Design | 5 |
| C20 | Project | 6 |

1. Write SQL queries to answer the following questions.

**Section A**

1. List the students those who come from Colombo.
2. List the students those who come from a city other than Colombo.
3. List the courses which have more than 4 credits.
4. List the name and address of students whose student number is greater than 103.
5. List the phone number of ‘Nethu’.

**Section B**

1. List the course number and name of courses that start with ‘D’.
2. List the names of students whose name ends with ‘n’.
3. List all the students with the name starting with any character, followed by ‘am’
4. List all the subjects that have the word ‘design’ in its name.
5. selects all studnets with a address that starts with ‘C’ and ends with ‘O’
6. Select all the students with the name starting with ‘A’, ‘B’, ‘C’, or ‘D’.
7. List all the details of students whose name start with a letter between B and N.
8. List the course names that start with a letter between A and J including A and J.
9. List the names of courses which has the letter ‘s’ as the 3rd letter in course name.
10. Select all the students whose name not starting with ‘D’ or ‘S’

**Section C**

1. Select names and phone numbers of all the students whose name start with ‘N’ or ‘D’ and who are from ‘Colombo’
2. List the names of courses which has the letter ‘s’ anywhere in a course name or which have more than 4 credits.

**Section D**

1. List all details of students whose dob is null but the phone number is not null.
2. Select names and phone numbers of all the students whose phone number is not null.
3. Select names, date of birth (dob) and phone numbers of all the students whose dob and phone both attributes are null.