

Assignment

Feb19/ DBT/001

Database Technologies

Diploma in Advance Computing

February 2019

Task 1.

1. Create **COURSE** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|-----------------|
| ID | int primary key |
| name | varchar(45) |
| duration | varchar(45) |
| summery | Varchar(1024) |

2. Create **STUDENT** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|-----------------|
| ID | int primary key |
| namefirst | varchar(45) |
| namelast | varchar(45) |
| DOB | date |
| emailID | varchar(128) |

3. Create **STUDENT_PHONE** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|--|
| ID | int primary key |
| studentID | int FOREIGN KEY('studentID') REFERENCES `student`('id') |
| number | varchar(45) |

4. Create **STUDENT_ADDRESS** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|--|
| ID | int primary key |
| studentID | int FOREIGN KEY('studentID') REFERENCES `student`('id') |
| address | varchar(128) |

5. Create **FACULTY** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|-----------------|
| ID | int primary key |
| namefirst | varchar(45) |
| namelast | varchar(45) |
| DOB | date |
| emailID | varchar(128) |

6. Create **FACULTY_PHONE** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|---|
| ID | int primary key |
| facultyID | int FOREIGN KEY('facultyID') REFERENCES 'faculty'('id') |
| number | varchar(10) |

7. Create **FACULTY_ADDRESS** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|---|
| ID | int primary key |
| facultyID | int FOREIGN KEY('facultyID') REFERENCES 'faculty'('id') |
| address | varchar(128) |

8. Create **MODULES** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|-----------------|
| ID | int primary key |
| name | varchar(128) |
| duration | int |

9. Create **COURSE_MODULES** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|--|
| ID | int primary key |
| courseID | int FOREIGN KEY ('courseID') REFERENCES 'infoway_campus`.`course`('ID') |
| moduleID | int FOREIGN KEY ('moduleID') REFERENCES 'infoway_campus`.`modules`('ID') |

10. Create **STUDENT_QUALIFICATIONS** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|---|
| ID | int primary key |
| studentID | int FOREIGN KEY('studentID') REFERENCES 'student'('id') |
| name | varchar(128) |
| college | varchar(128) |
| university | varchar(128) |
| marks | varchar(45) |
| year | int |

11. Create **FACULTY_QUALIFICATIONS** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|---|
| ID | int primary key |
| facultyID | int FOREIGN KEY('facultyID') REFERENCES 'faculty'('id') |
| name | varchar(128) |
| college | varchar(128) |
| university | varchar(128) |
| marks | varchar(45) |
| year | int |

12. Create **COURSE_BATCHES** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|--|
| ID | int primary key |
| name | varchar(45) |
| courseID | int FOREIGN KEY ('courseID') REFERENCES 'infoway_campus`.`course` ('ID') |
| starton | date |
| endson | date |
| capacity | int |

13. Create **BATCH_STUDENTS** Relation with following columns using Workbench.

| Field Name | Datatype (size) |
|------------|---|
| ID | int primary key |
| batchID | int FOREIGN KEY ('batchID') REFERENCES 'infoway_campus`.`course_batches` ('ID') |
| studentID | int FOREIGN KEY ('studentID') REFERENCES 'infoway_campus`.`student` ('ID') |

Task 2.

1. Insert the records in *COURSE, STUDENT, FACULTY, STUDENT_PHONE, STUDENT_ADDRESS, FACULTY, FACULTY_PHONE, FACULTY_ADDRESS, MODULES, COURSE_MODULES, STUDENT_QUALIFICATIONS, FACULTY_QUALIFICATIONS, COURSE_BATCHES, and BATCH_STUDENTS*. relation. Get the data from “Infoway_campus.xlsx” **Sheet1** file which will be provided to you.

