

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 UNIQUE NOT NULL 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 UNIQUE NOT NULL 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.

