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) |

1. 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) |

1. 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) |

1. 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) |

1. 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) |

1. 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) |

1. 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) |

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

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

1. 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`) |

1. 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 |

1. 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 |

1. 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 |
| capicity | int |

1. 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.