Assignment

February/ DBT/002

Database Technologies

Diploma in Advance Computing

February 2025

**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) |
| isActive | bool |

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 course(id) |
| moduleID | int foreign key (moduleid) references 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 course (id) |
| starton | date |
| endson | date |
| capacity | 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 course\_batches (id) |
| studentID | int foreign key (studentid) references student (id) |

1. Create ***STUDENT\_CARDS*** Relation with following columns using Workbench.

|  |  |
| --- | --- |
| Field Name | Datatype (size) |
| ID | int primary key |
| studentID | int foreign key(studentid) references student(id) |
| name | varchar(45) |
| isActive | bool |

1. Create ***STUDENT\_ORDER*** Relation with following columns using Workbench.

|  |  |
| --- | --- |
| Field Name | Datatype (size) |
| ID | int primary key |
| studentID | int foreign key(studentid) references student(id) |
| date | date |
| amount | int |

**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, BATCH\_STUDENTS, STUDENT\_CARDS, and STUDENT\_ORDER*** relation. Get the data from “infoway\_campus.xlsx“ file.