**Assignment -1**

1. Start mysql using

$ mysql -u root –p

(enter password if prompted)

1. Create a database.

mysql> create database studentdb;

mysql> use studentdb;

We need to create the following tables in the Relation database MYSQL.

**STUDENT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **snum** | **sname** | **major** | **standing** | **age** |
| 05593 | Maria White | English | SR | 21 |
| 06453 | Charles Harris | Architecture | SR | 22 |
| 09543 | Susan Martin | Law | JR | 20 |
| 11546 | Joseph Thompson | Computer Science | SO | 19 |
| 11938 | Christopher Garcia | Computer Science | JR | 20 |
| 13562 | Angela Martinez | History | SR | 20 |
| 26834 | Thomas Robinson | Psychology | SO | 18 |
| 28572 | Margaret Clark | Animal Science | FR | 18 |
| 30823 | Juan Rodriguez | Psychology | JR | 20 |
| 31912 | Dorthy Lewis | Finance | FR | 18 |
| 32981 | Daniel Lee | Electrical Engineering | FR | 17 |
| 32189 | Lisa Walker | Computer Science | SO | 17 |
| 34549 | Paul Hall | Computer Science | JR | 18 |
| 35322 | Nancy Allen | Accounting | JR | 19 |
| 45864 | Mark Young | Finance | FR | 18 |
| 45411 | Luis Hernandez | Electrical Engineering | FR | 17 |
| 46489 | Donald King | Mechanical Engineering | SO | 19 |
| 55548 | George Wright | Education | SR | 21 |
| 55318 | Ana Lopez | Computer Engineering | SR | 19 |
| 55565 | Kenneth Hill | Civil Engineering | SR | 21 |
| 56612 | Karen Scott | Computer Engineering | FR | 18 |
| 57895 | Steven Green | Kinesiology | SO | 19 |
| 57456 | Betty Adams | Economics | JR | 20 |
| 57478 | Edward Baker | Veterinary Medicine | SR | 21 |

**Syntax to create table in the database**

create table student(snum numeric(9,0),sname varchar(30),major varchar(25),standing varchar(2),age numeric(3,0),primary key (snum));

**FACULTY**

|  |  |  |
| --- | --- | --- |
| **fid** | **fname** | **deptid** |
| 1464 | Ivana Teach | 20 |
| 2465 | James Smith | 68 |
| 1451 | Mary Johnson | 20 |
| 0112 | John Williams | 68 |
| 2523 | Patricia Jones | 68 |
| 3525 | Robert Brown | 12 |
| 4822 | Linda Davis | 20 |
| 2812 | Michael Miller | 12 |
| 2455 | Barbara Wilson | 12 |
| 1516 | William Moore | 33 |
| 0919 | Elizabeth Taylor | 11 |
| 4866 | David Anderson | 20 |
| 6188 | Jennifer Thomas | 11 |
| 4823 | Richard Jackson | 33 |
| 5462 | Ulysses Teach | 20 |

**Syntax to create table in the database**

create table faculty(fid numeric(9,0),fname varchar(30),deptid numeric(2,0),primary key(fid));

**CLASS**

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **MEETS** | **ROOM** | **FID** |
| Data Structures | MWF 10 | R128 | 4822 |
| Database Systems | MWF 12:30-1:45 | 1320 DCL | 1464 |
| Operating System Design | TuTh 12-1:20 | 20 AVW | 4822 |
| Archaeology of the Incas | MWF 3-4:15 | R128 | 2455 |
| Aviation Accident Investigation | TuTh 1-2:50 | Q3 | 0112 |
| Air Quality Engineering | TuTh 10:30-11:45 | R15 | 0112 |
| Introductory Latin | MWF 3-4:15 | R12 | 2455 |
| American Political Parties | TuTh 2-3:15 | 20 AVW | 6188 |
| Social Cognition | Tu 6:30-8:40 | R15 | 1516 |
| Perception | MTuWTh 3 | Q3 | 4823 |
| Multivariate Analysis | TuTh 2-3:15 | R15 | 0919 |
| Patent Law | F 1-2:50 | R128 | 0919 |
| Urban Economics | MWF 11 | 20 AVW | 4823 |
| Organic Chemistry | TuTh 12:30-1:45 | R12 | 4823 |
| Marketing Research | MW 10-11:15 | 1320 DCL | 4823 |
| Seminar in American Art | M 4 | R15 | 4823 |
| Orbital Mechanics | MWF 8 | 1320 DCL | 0112 |
| Dairy Herd Management | TuTh 12:30-1:45 | R128 | 3525 |
| Communication Networks | MW 9:30-10:45 | 20 AVW | 1451 |
| Optical Electronics | TuTh 12:30-1:45 | R15 | 2523 |
| Intoduction to Math | TuTh 8-9:30 | R128 | 4823 |

**Syntax to create table in the database**

create table class (name varchar (40), meets varchar (20), room varchar (10), fid numeric (9,0),

primary key (name), foreign key(fid) references faculty(fid));

**ENROLLED**

|  |  |
| --- | --- |
| **SNUM** | **CNAME** |
| 11546 | Database Systems |
| 11938 | Database Systems |
| 34549 | Database Systems |
| 32189 | Database Systems |
| 55318 | Database Systems |
| 45411 | Operating System Design |
| 55318 | Operating System Design |
| 56612 | Operating System Design |
| 11546 | Operating System Design |
| 11938 | Operating System Design |
| 32189 | Operating System Design |
| 56612 | Data Structures |
| 55318 | Communication Networks |
| 45411 | Optical Electronics |
| 30823 | Perception |
| 30823 | Social Cognition |
| 30823 | American Political Parties |
| 55565 | Air Quality Engineering |
| 09543 | Patent Law |
| 57456 | Urban Economics |

**Syntax to create table in the database**

create table enrolled(snum numeric(9,0),cname varchar(40),primary key(snum,cname),

foreign key(snum) references student(snum),foreign key(cname) references class(name));

1. Run show tables to verify that your table was created.

mysql> show tables;

1. Insert the following values into the tables using the insert into statement. You can add multiple rows as shown below:

INSERT INTO student VALUES(05593,'Maria White','English','SR',21),(06453,'Charles Harris','Architecture','SR',22);