SQL commands for creating database and tables

```
CREATE DATABASE IF NOT EXISTS 'NBA';
USE `NBA`;
SET FOREIGN_KEY_CHECKS = 0;
DROP TABLE IF EXISTS `Division`;
DROP TABLE IF EXISTS `Venue`;
DROP TABLE IF EXISTS `NBATeam_BelongsTo`;
DROP TABLE IF EXISTS `NBAPlayer_PlaysFor`;
DROP TABLE IF EXISTS `NBAStaff_WorksFor`;
DROP TABLE IF EXISTS `Sponsor_Endorses`;
DROP TABLE IF EXISTS `NBAGame_Plays_PlayedAt`;
DROP TABLE IF EXISTS `NBAReferee`;
DROP TABLE IF EXISTS `Referees`;
CREATE TABLE 'Division' (
    `divisionName` VARCHAR(10),
    PRIMARY KEY (`divisionName`)
);
CREATE TABLE `Venue` (
   `venueName` VARCHAR(30),
    `city` VARCHAR(30),
    `address` VARCHAR(50),
   PRIMARY KEY (`venueName`, `city`)
);
CREATE TABLE `NBATeam_BelongsTo` (
    `abbreviation` CHAR(3),
    `city` VARCHAR(30),
    `teamName` VARCHAR(30),
    `divisionName` VARCHAR(10) NOT NULL,
   PRIMARY KEY (`abbreviation`),
   FOREIGN KEY (`divisionName`) REFERENCES `Division` (`divisionName`)
);
CREATE TABLE `NBAPlayer PlaysFor` (
    `number` INT,
    `position` CHAR(2),
    `firstName` VARCHAR(30),
   `lastName` VARCHAR(30),
    `height` INT,
    `weight` INT,
    `draftYear` YEAR(4),
    `team` CHAR(3) NOT NULL,
    PRIMARY KEY ('number', 'team'),
    FOREIGN KEY ('team') REFERENCES 'NBATeam_BelongsTo' ('abbreviation')
        ON DELETE CASCADE
);
CREATE TABLE `NBAStaff_WorksFor` (
```

```
`firstName` VARCHAR(30),
    `lastName` VARCHAR(30),
    job VARCHAR(30),
    `team` CHAR(3) NOT NULL,
    PRIMARY KEY (`firstname`, `lastname`, `team`),
    FOREIGN KEY ('team') REFERENCES 'NBATeam_BelongsTo' ('abbreviation')
        ON DELETE CASCADE
);
CREATE TABLE `Sponsor_Endorses` (
    `company` VARCHAR(30),
    `team` CHAR(3) NOT NULL,
    PRIMARY KEY (`company`, `team`),
    FOREIGN KEY ('team') REFERENCES 'NBATeam_BelongsTo' ('abbreviation')
        ON DELETE CASCADE
);
CREATE TABLE `NBAGame_Plays_PlayedAt` (
    `gameDate` DATE,
    `homeScore` INT,
    `awayScore` INT,
    `homeTeam` CHAR(3) NOT NULL,
    `awayTeam` CHAR(3) NOT NULL,
    `venueName` VARCHAR(30) NOT NULL,
    `city` VARCHAR(30) NOT NULL,
    PRIMARY KEY (`gameDate`, `homeTeam`, `awayTeam`),
    FOREIGN KEY (`homeTeam`) REFERENCES `NBATeam_BelongsTo` (`abbreviation`)
        ON DELETE CASCADE,
    FOREIGN KEY (`awayTeam`) REFERENCES `NBATeam_BelongsTo` (`abbreviation`)
        ON DELETE CASCADE,
    FOREIGN KEY ('venueName', 'city') REFERENCES 'Venue' ('venueName', 'city')
);
CREATE TABLE `NBAReferee` (
    `number` INT,
    `firstName` VARCHAR(30),
    `lastName` VARCHAR(30),
    PRIMARY KEY (`number`)
);
CREATE TABLE `Referees` (
    `refNumber` INT,
    `gameDate` DATE,
    `homeTeam` CHAR(3),
    `awayTeam` CHAR(3),
   PRIMARY KEY ('refNumber', 'gameDate', 'homeTeam', 'awayTeam'),
    FOREIGN KEY ('refNumber') REFERENCES 'NBAReferee' ('number'),
    FOREIGN KEY (`gameDate`, `homeTeam`, `awayTeam`)
        REFERENCES `NBAGame_Plays_PlayedAt` (`gameDate`, `homeTeam`, `awayTeam`)
);
```

SQL commands for inserting data

```
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/Division.txt'
    INTO TABLE nba.division
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/NBAGame Plays PlayedAt.txt'
    INTO TABLE nba.nbagame_plays_playedat
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/NBAPlayer_PlaysFor.txt'
    INTO TABLE nba.nbaplayer playsfor
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/NBAReferee.txt'
    INTO TABLE nba.nbareferee
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/NBAStaff_WorksFor.txt'
    INTO TABLE nba.nbastaff_worksfor
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/NBATeam_BelongsTo.txt'
    INTO TABLE nba.nbateam_belongsto
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/Referees.txt'
    INTO TABLE nba.referees
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/Sponsor_Endorses.txt'
    INTO TABLE nba.sponsor_endorses
    IGNORE 1 LINES;
LOAD DATA INFILE '/opt/bitnami/apache2/cpsc304/data/Venue.txt'
    INTO TABLE nba.venue
    IGNORE 1 LINES;
```

Proof that data is stored correctly

```
mysql> show tables;
| Tables_in_nba
 nbagame_plays_playedat
 nbaplayer_playsfor
 nbareferee
 nbastaff_worksfor
 nbateam_belongsto
 referees
 sponsor_endorses
| venue
9 rows in set (0.00 sec)
mysql> select * from division;
| divisionName |
| Atlantic
  Central
 Northwest
 Pacific
  Southeast
| Southwest
6 rows in set (0.00 sec)
```

mysql> select * from nbagame_plays_playedat;

gameDate	homeScore	awayScore	homeTeam	awayTeam	venueName	city
2014-04-20 2014-05-06 2014-05-07 2014-05-10 2014-05-11	116 105 103		SAS SAS OKC POR LAC	DAL POR LAC SAS OKC	AT&T Center AT&T Center Cheasapeake Energy Arena Moda Center Staples Center	San Antonio, TX San Antonio, TX Oklahoma City, OK Portland, OR Los Angeles, CA

5 rows in set (0.00 sec)

mysql> select * from nbaplayer_playsfor;

number	position	firstName	lastName	height	weight	+ draftYear +	team
12 12 21 22	C	Steven	Adams Aldridge Duncan Barnes Nowitzki	84 83 83 79 84	255	2013 2009 1997	•

5 rows in set (0.00 sec)

mysql> select * from nbareferee;

+	+	
number	firstName	lastName
10 12 13 15 17 27 28 32 40	Ron Violet Monty Bennett Joe Dick Zach Eddie Leon	Garretson Palmer McCutchen Salvatore Crawford Bavetta Zarba Rush Wood

9 rows in set (0.00 sec)

mysql> select * from nbastaff_worksfor;

firstName		l job	++ team ++
Alvin Gregg Jay Rick	Gentry Popovich Triano Carlisle	Assistant Coach	LAC SAS

5 rows in set (0.00 sec)

mysql> select * from nbateam_belongsto;

abbreviation	city	teamName	++ divisionName +
DAL LAC OKC POR SAS	Dallas, TX Los Angeles, CA Oklahoma City, OK Portland, OR San Antonio, TX	Mavericks Clippers Thunder Blazers Spurs	Southwest Pacific Northwest Northwest Southwest

5 rows in set (0.00 sec)

mysql> select * from referees;

refNumber	gameDate	homeTeam	awayTeam
10 40 10 12 13 15 17 27 28 32	2014-04-20 2014-04-20 2014-05-06 2014-05-06 2014-05-07 2014-05-07 2014-05-10 2014-05-11 2014-05-11	SAS SAS SAS OKC OKC POR POR LAC LAC	DAL DAL POR POR LAC LAC SAS SAS OKC

10 rows in set (0.00 sec)

mysql> select * from sponsor_endorses;
+-----+

company	team
AMERICAN AIRLINES	DAL
ANHEUSER-BUSCH	DAL
AT&T	DAL
AUDI	DAL
COCA-COLA	DAL
DR PEPPER SNAPPLE GROUP	DAL
MILLERCOORS	DAL
PLAINS CAPITAL BANK	DAL
TEXAS FORD DEALERS	DAL
TXU	DAL
DODGE	LAC
KIA	LAC
MERCEDEZ BENZ	LAC
STATE FARM INSURANCE	LAC
CHESAPEAKE ENERGY	l okc l
DEVON ENERGY	l okc l
HERTZ	l okc i
LOVE'S COUNTRY'S	l okc i
MIDFIRST BANK	l okc l
RIVERWIND CASINO	l okc l
SANDRIDGE ENERGY	l okc i
COMCAST	POR
KIA	POR
NORTHWEST FORD STORES	POR
SPIRIT MOUNTAIN CASINO	POR
WELLS FARGO	POR
BROWN AUTO GROUP	SAS
H-E-B	SAS
SILVER EAGLE DISTRIBUTOR	SAS
SWBC	SAS
USAA	SAS
VALERO	SAS

32 rows in set (0.00 sec)

mysql> select * from venue;

<u> </u>		
venueName	city	address
American Airlines Center AT&T Center Chesapeake Energy Arena Moda Center Staples Center	San Antonio, TX Oklahoma City, OK Portland, OR	2500 Victory Avenue 1 AT&T Center Parkway 100 West Reno Avenue 1 Center Court 1111 S. Figueroa Street

5 rows in set (0.00 sec)