mysql> CREATE DATABASE tllos1; Query OK, 1 row affected (0.01 sec)

mysql> show databases;

+----------------------+

| Database |

+----------------------+

| information\_schema |

| mysql |

| performance\_schema |

| tllos1 |

| sys |

+----------------------+

5 rows in set (0.00 sec)

mysql> USE tllos1 Database changed mysql>

|  |
| --- |
| mysql> CREATE DATABASE HorseRacing\_tllos1;  Query OK, 1 row affected (0.01 sec)  mysql> show databases; +----------------------+  | Database |  +----------------------+  | HorseRacing\_tllos1 |  | information\_schema |  | mysql |  | performance\_schema |  | tllos1 |  | sys |  +----------------------+  6 rows in set (0.00 sec)  mysql> use HorseRacing\_tllos1;  Database changed mysql> |

|  |
| --- |
| create table Person ( pId VARCHAR(3) ,  PName VARCHAR(20) NOT NULL, pPhone VARCHAR(10), pAddress VARCHAR(40),  CONSTRAINT Person\_pId\_pk PRIMARY KEY (pId) ); |

|  |
| --- |
| mysql> Create Table Person ( -> pId VARCHAR(3) ,  -> PName VARCHAR(20) NOT NULL,  -> pPhone VARCHAR(10),  -> pAddress VARCHAR(40),  -> PRIMARY KEY (pId)  -> );  Query OK, 0 rows affected (0.03 sec) mysql> |

### 3.1.2 RaceHorse

|  |
| --- |
| CREATE TABLE RaceHorse (  regNum VARCHAR(3) PRIMARY KEY, hName VARCHAR(20) NOT NULL, gender VARCHAR(6), type VARCHAR(13), purchaseDate VARCHAR(10), purchasePrice VARCHAR(10), trainedBy VARCHAR(3),  FOREIGN KEY (trainedBy) REFERENCES Person (pId) ); |

mysql> CREATE TABLE RaceHorse (

-> regNum VARCHAR(3) PRIMARY KEY,

-> hName VARCHAR(20) NOT NULL,

-> gender VARCHAR(6),

-> type VARCHAR(13),

-> purchaseDate VARCHAR(10),

-> purchasePrice VARCHAR(10),

-> trainedBy VARCHAR(3),

-> FOREIGN KEY (trainedBy) REFERENCES Person (pId)

-> );

Query OK, 0 rows affected (0.04 sec)

|  |
| --- |
| CREATE TABLE Entry (sId VARCHAR(3), rNumber INT(4), gate INT(2), finalPos INT(2), jockey VARCHAR(3), horse VARCHAR(3),  PRIMARY KEY (sId, rNumber, gate),  FOREIGN KEY (jockey) REFERENCES Person (pId),  FOREIGN KEY (horse) REFERENCES RaceHorse (regNum)  ); |

mysql> mysql> CREATE TABLE Entry (

-> sId VARCHAR(3),

-> rNumber INT(4),

-> gate INT(2),

-> finalPos INT(2),

-> jockey VARCHAR(3),

-> horse VARCHAR(3),

-> PRIMARY KEY (sId, rNumber, gate),

-> FOREIGN KEY (jockey) REFERENCES Person (pId),

-> FOREIGN KEY (horse) REFERENCES RaceHorse (regNum)

-> );

Query OK, 0 rows affected, 3 warnings (0.04 sec)

mysql> SHOW WARNINGS;

+---------+------+-----------------------------------------------------------------------------+

| Level | Code | Message |

+---------+------+-----------------------------------------------------------------------------+

| Warning | 1681 | Integer display width is deprecated and will be removed in a future release. |

| Warning | 1681 | Integer display width is deprecated and will be removed in a future release. |

| Warning | 1681 | Integer display width is deprecated and will be removed in a future release. |

+---------+------+-----------------------------------------------------------------------------+

3 rows in set (0.00 sec)

mysql> show tables;

+--------------------------------+

| Tables\_in\_HorseRacing\_tllos1 |

+--------------------------------+

| Entry |

| Person |

| RaceHorse |

+--------------------------------+ 3 rows in set (0.00 sec)

INSERT INTO Person VALUES ('p01', 'Bob Jones', '8069927001', '401 Oak Street, Lubbock, TX 11122');

INSERT INTO Person VALUES ('p02', 'Sally Smith', '8069927002', '200 Pine Street, Abilene, TX 22211');

INSERT INTO Person VALUES ('p03', 'Rick Robins', '8069927003', '301 Elm Street,

Amarillo, TX 33321');

INSERT INTO Person VALUES ('p04', 'Jack Anders', '8069927004', '100 5th Street, Guthrie, TX 55533');

INSERT INTO Person VALUES ('p05', 'Sue Stegen', '8069927005', '506 Cedar Street, Bastrop, TX 77789');

INSERT INTO Person VALUES ('p06', 'Joe Koblinski', '8069927006', '600 6th Street, Austin, TX 99988');

INSERT INTO Person VALUES ('p07', 'Mary Cane', '8069927007', '722 1st Street, Houston, TX 12345');

INSERT INTO RaceHorse VALUES ('r01', 'Lucky', 'male', 'thoroughbred',

'02/02/2015', 30000, 'p01');

INSERT INTO RaceHorse VALUES ('r02', 'Fast', 'female', 'thoroughbred',

'02/01/2015', 20000, 'p02');

INSERT INTO RaceHorse VALUES ('r03', 'UnLucky', 'male', 'quarter horse',

'02/07/2015', 25000, 'p02');

INSERT INTO RaceHorse VALUES ('r04', 'Slow', 'female', 'quarter horse',

'02/08/2015', 40000, 'p01');

INSERT INTO RaceHorse VALUES ('r05', 'Legend', 'male', 'thoroughbred', '02/04/2015', 15000, 'p07');

INSERT INTO RaceHorse VALUES ('r12', 'Lufast', 'female', 'thoroughbred',

'02/09/2015', 50000, 'p07');

INSERT INTO RaceHorse VALUES ('r34', 'Unslow', 'male', 'quarter horse', '02/10/2015', 30000, 'p01');

INSERT INTO Entry VALUES ('s01', 1, 1, 4, 'p01', 'r01');

INSERT INTO Entry VALUES ('s01', 1, 2, 3, 'p02', 'r02');

INSERT INTO Entry VALUES ('s01', 1, 3, 2, 'p03', 'r03');

INSERT INTO Entry VALUES ('s01', 1, 4, 1, 'p04', 'r04');

INSERT INTO Entry VALUES ('s01', 2, 1, 3, 'p05', 'r05');

INSERT INTO Entry VALUES ('s01', 2, 2, 2, 'p06', 'r12');

INSERT INTO Entry VALUES ('s01', 2, 3, 1, 'p07', 'r34');

INSERT INTO Entry VALUES ('s02', 1, 1, 1, 'p07', 'r01');

INSERT INTO Entry VALUES ('s02', 1, 2, 4, 'p06', 'r12');

INSERT INTO Entry VALUES ('s02', 1, 3, 3, 'p05', 'r34');

INSERT INTO Entry VALUES ('s02', 1, 4, 2, 'p04', 'r04');

INSERT INTO Entry VALUES ('s02', 2, 1, 1, 'p03', 'r05');

INSERT INTO Entry VALUES ('s02', 2, 2, 2, 'p02', 'r02');

INSERT INTO Entry VALUES ('s02', 2, 3, 3, 'p01', 'r03');

|  |
| --- |
| mysql> select owner,telephone -> from RaceHorse R, Person P  -> where R.hName='Lucky' and R.trainedBy=P.pId;  +-----------+------------+  | pName | pPhone |  +-----------+------------+  | Bob Jones | 8069927001 |  +-----------+------------+  1 row in set (0.00 sec) |

mysql> select E.sId, E.rNumber, E.finalPos

-> from RaceHorse R, Entry E

-> where R.hName='Lucky' and R.regNum=E.horse;

+-----+---------+----------+

| sId | rNumber | finalPos |

+-----+---------+----------+

| s01 | 1 | 4 |

| s02 | 1 | 1 |

+-----+---------+----------+

2 rows in set (0.00 sec)

mysql> select E.sId, E.rNumber, P.pName, P.pAddress

-> from Person P, Entry E

-> where E.finalPos=1 and E.jockey=P.pId;

+-----+---------+-------------+------------------------------------+

| sId | rNumber | pName | pAddress |

+-----+---------+-------------+------------------------------------+

| s01 | 1 | Jack Anders | 100 5th Street, Guthrie, TX 55533 |

| s01 | 2 | Mary Cane | 722 1st Street, Houston, TX 12345 |

| s02 | 1 | Mary Cane | 722 1st Street, Houston, TX 12345 |

| s02 | 2 | Rick Robins | 301 Elm Street, Amarillo, TX 33321 |

+-----+---------+-------------+------------------------------------+ 4 rows in set (0.00 sec)

CREATE TABLE Worker (

empId NUMBER(6) PRIMARY KEY,

lastName VARCHAR2(20) NOT NULL,

firstName VARCHAR2(15) NOT NULL

deptName VARCHAR2(15),

birthDate DATE,

hireDate DATE,

salary NUMBER(8,2));

CREATE TABLE Dept(

deptName VARCHAR2(15),

mgrld NUMBER(6) ,

CONSTRAINT Dept\_deptName\_pk PRIMARY KEY (deptName),

CONSTRAINT Dept\_mgrId\_fk FOREIGN KEY (mgrId) REFERENCES Worker(empId) ON DELETE SET NULL);

ALTER TABLE Worker ADD CONSTRAINT Worker\_deptName\_fk FOREIGN KEY (deptName) REFERENCES

Dept(deptName) ON DELETE SET NULL;

CREATE TABLE Project (

projNo NUMBER(6) ,

projName VARCHAR2(20),

projMgrId NUMBER(6) ,

budget NUMBER (8,2),

startDate DATE,

expectedDurationWeeks NUMBER(4),

CONSTRAINT Project\_projNo\_pk PRIMARY KEY (projNo),

CONSTRAINT Project\_projMgrId\_fk FOREIGN KEY(projMgrId) REFERENCES WORKER(empId) ON DELETE SET NULL);

CREATE TABLE Assign (

projNo NUMBER(6),

empld NUMBER(6) ,

hoursAssigned NUMBER(3),

rating NUMBER(1),

Dept VALUES ('Accounting'

CONSTRAINT Assign\_projNo\_empId\_pk PRIMARY KEY (projNo, empld),

CONSTRAINT Assign\_projNo\_fk FOREIGN KEY(projNo) REFERENCES Project(projNo) ON DELETE CASCADE

CONSTRAINT Assign\_empId\_fk FOREIGN KEY(empId) REFERENCES Worker(empId) ON DELETE CASCADE);

null);

Dept VALUES ('Research',null);

Worker VALUES(101,'Smith', 'Tom', 'Accounting', '01-Feb-1970°',

Worker VALUES(103, 'Jones', 'Mary', ‘Accounting’, '15-Jun-1975',

Worker VALUES(105, 'Burns', 'Jane', "Accounting, '21-Sep-1980°',

Worker VALUES(110, 'Burns', 'Michael','Research', '05-Apr-1977\*,

Worker VALUES(115,'Chin', 'Amanda', 'Research', '22-Sep-1980",

SET mgrId = 101 WHERE deptName = 'Accounting';

SET mgrld = 110 WHERE deptName = 'Research';

Project VALUES (1001, 'Jupiter', 101, 300000, '01-Feb-2014', 50);

Project VALUES (1005, 'Saturn', 101, 400000, '0O1-Jun-2014', 35);

Project VALUES (1019, 'Mercury', 110, 350000, '15-Feb-2014', 40);

Project VALUES (1025, 'Neptune', 110, 600000, '01-Feb-2015', 45);

Project VALUES (1030, 'Pluto', 110, 380000, '15-Sep-2014', 50);

Assign VALUES(1001, 101, 30,null);

Assign VALUES(1001, 103, 20,5);

Assign VALUES(1005, 103, 20,null);

Assign VALUES(1001, 105, 30,null);

Assign VALUES(1001, 115, 20,4);

Assign VALUES(1019, 110, 20,5);

Assign VALUES(1019, 115, 10,4);

Assign VALUES(1025, 110, 10,null);

Assign VALUES(1030, 110, 10,null);

'06-Jun-1993',50000) ;

'20-Sep-2005',48000);

\*12-Jun-2000',39000) ;

'10-Sep-2010',70000) ;

\*19-Jun-2014',60000) ;