Themepark Database

CREATE TABLE THEMEPARK (  
PARK\_CODE    VARCHAR(10) PRIMARY KEY,  
PARK\_NAME    VARCHAR(35) NOT NULL,  
PARK\_CITY    VARCHAR(50) NOT NULL,  
PARK\_COUNTRY    CHAR(2) NOT NULL);

CREATE TABLE EMPLOYEE (  
EMP\_NUM        NUMERIC(4) PRIMARY KEY,  
EMP\_TITLE    VARCHAR(4),  
EMP\_LNAME    VARCHAR(15) NOT NULL,  
EMP\_FNAME    VARCHAR(15) NOT NULL,  
EMP\_DOB        DATE NOT NULL,  
EMP\_HIRE\_DATE    DATE,  
EMP\_AREA\_CODE    VARCHAR(4) NOT NULL,  
EMP\_PHONE    VARCHAR(12) NOT NULL,  
PARK\_CODE    VARCHAR(10),  
INDEX        (PARK\_CODE),  
CONSTRAINT     FK\_EMP\_PARK FOREIGN KEY(PARK\_CODE) REFERENCES THEMEPARK(PARK\_CODE));

CREATE TABLE TICKET (  
TICKET\_NO     NUMERIC(10) PRIMARY KEY,  
TICKET\_PRICE     NUMERIC(4,2) DEFAULT 00.00 NOT NULL,  
TICKET\_TYPE    VARCHAR(10),  
PARK\_CODE    VARCHAR(10),  
INDEX        (PARK\_CODE),  
CONSTRAINT     FK\_TICKET\_PARK FOREIGN KEY(PARK\_CODE) REFERENCES THEMEPARK(PARK\_CODE));

CREATE TABLE ATTRACTION (  
ATTRACT\_NO     NUMERIC(10) PRIMARY KEY,  
ATTRACT\_NAME    VARCHAR(35),  
ATTRACT\_AGE    NUMERIC(3) DEFAULT 0 NOT NULL,  
ATTRACT\_CAPACITY NUMERIC(3) NOT NULL,  
PARK\_CODE    VARCHAR(10),  
INDEX        (PARK\_CODE),  
CONSTRAINT     FK\_ATTRACT\_PARK FOREIGN KEY(PARK\_CODE) REFERENCES THEMEPARK(PARK\_CODE));

CREATE TABLE HOURS (  
EMP\_NUM        NUMERIC(4),  
ATTRACT\_NO     NUMERIC(10),  
HOURS\_PER\_ATTRACT    NUMERIC(2) NOT NULL,  
HOUR\_RATE    NUMERIC(4,2) NOT NULL,  
DATE\_WORKED    DATE NOT NULL,  
INDEX        (EMP\_NUM),  
INDEX        (ATTRACT\_NO),  
CONSTRAINT    PK\_HOURS PRIMARY KEY(EMP\_NUM, ATTRACT\_NO, DATE\_WORKED),  
CONSTRAINT     FK\_HOURS\_EMP  FOREIGN KEY   (EMP\_NUM) REFERENCES EMPLOYEE(EMP\_NUM),  
CONSTRAINT    FK\_HOURS\_ATTRACT FOREIGN KEY (ATTRACT\_NO) REFERENCES ATTRACTION(ATTRACT\_NO));

CREATE TABLE SALES (  
TRANSACTION\_NO     NUMERIC PRIMARY KEY,  
PARK\_CODE    VARCHAR(10),  
SALE\_DATE      DATE NOT NULL,  
INDEX        (PARK\_CODE),  
CONSTRAINT     FK\_SALES\_PARK FOREIGN KEY(PARK\_CODE) REFERENCES THEMEPARK(PARK\_CODE));

CREATE TABLE SALES\_LINE (  
TRANSACTION\_NO     NUMERIC,  
LINE\_NO        NUMERIC(2,0) NOT NULL,  
TICKET\_NO     NUMERIC(10)  NOT NULL,  
LINE\_QTY    NUMERIC(4) DEFAULT 0 NOT NULL,  
LINE\_PRICE    NUMERIC(9,2) DEFAULT 0.00 NOT NULL,  
INDEX        (TRANSACTION\_NO),  
INDEX        (TICKET\_NO),  
CONSTRAINT    PK\_SALES\_LINE    PRIMARY KEY (TRANSACTION\_NO,LINE\_NO),  
CONSTRAINT    FK\_SALES\_LINE\_SALES  FOREIGN KEY (TRANSACTION\_NO) REFERENCES SALES(TRANSACTION\_NO) ON DELETE CASCADE,  
CONSTRAINT    FK\_SALES\_LINE\_TICKET FOREIGN KEY (TICKET\_NO) REFERENCES TICKET(TICKET\_NO));

/\* CREATING AN INDEX ON EMP\_LNAME IN THE  EMPLOYEE TABLE  \*/

CREATE INDEX EMP\_LNAME\_INDEX ON EMPLOYEE(EMP\_LNAME(8));

/\* Loading data rows                    \*/

/\* ThemePark rows                        \*/  
INSERT INTO THEMEPARK VALUES (‘FR1001′,’FairyLand’,’PARIS’,’FR’);  
INSERT INTO THEMEPARK VALUES (‘NL1202′,’Efling’,’NOORD’,’NL’);  
INSERT INTO THEMEPARK VALUES (‘SP4533′,’AdventurePort’,’BARCELONA’,’SP’);  
INSERT INTO THEMEPARK VALUES (‘SW2323′,’Labyrinthe’,’LAUSANNE’,’SW’);  
INSERT INTO THEMEPARK VALUES (‘UK2622′,’MiniLand’,’WINDSOR’,’UK’);  
INSERT INTO THEMEPARK VALUES (‘UK3452′,’PleasureLand’,’STOKE’,’UK’);  
INSERT INTO THEMEPARK VALUES (‘ZA1342′,’GoldTown’,’JOHANNESBURG’,’ZA’);

/\* Employee rows                        \*/  
INSERT INTO EMPLOYEE VALUES (100,’Ms’,’Calderdale’,’Emma’,’1972-06-15′,’1992-03-15′,’0181′,’324-9134′,’FR1001′);  
INSERT INTO EMPLOYEE VALUES (101,’Ms’,’Ricardo’,’Marshel’,’1978-03-19′,’1996-04-25′,’0181′,’324-4472′,’UK3452′);  
INSERT INTO EMPLOYEE VALUES (102,’Mr’,’Arshad’,’Arif’,’1969-11-14′,’1990-12-20′,’7253′,’675-8993′,’FR1001′);  
INSERT INTO EMPLOYEE VALUES (103,’Ms’,’Roberts’,’Anne’,’1974-10-16′,’1994-08-16′,’0181′,’898-3456′,’UK3452′);  
INSERT INTO EMPLOYEE VALUES (104,’Mr’,’Denver’,’Enrica’,’1980-11-08′,’2001-10-20′,’7253′,’504-4434′,’ZA1342′);  
INSERT INTO EMPLOYEE VALUES (105,’Ms’,’Namowa’,’Mirrelle’,’1990-03-14′,’2006-11-08′,’0181′,’890-3243′,’FR1001′);  
INSERT INTO EMPLOYEE VALUES (106,’Mrs’,’Smith’,’Gemma’,’1968-02-12′,’1989-01-05′,’0181′,’324-7845′,’ZA1342′);

/\* Ticket rows                        \*/  
INSERT INTO TICKET VALUES (11001,24.99,’Adult’,    ‘SP4533′);  
INSERT INTO TICKET VALUES (11002,14.99,’Child’,    ‘SP4533′);  
INSERT INTO TICKET VALUES (11003,10.99,’Senior’,’SP4533′);  
INSERT INTO TICKET VALUES (13001,18.99,’Child’,’FR1001′);  
INSERT INTO TICKET VALUES (13002,34.99,’Adult’,’FR1001′);  
INSERT INTO TICKET VALUES (13003,20.99,’Senior’,’FR1001′);  
INSERT INTO TICKET VALUES (67832,18.56,’Child’,’ZA1342′);  
INSERT INTO TICKET VALUES (67833,28.67,’Adult’,’ZA1342′);  
INSERT INTO TICKET VALUES (67855,12.12,’Senior’,’ZA1342′);  
INSERT INTO TICKET VALUES (88567,22.50,’Child’,’UK3452′);  
INSERT INTO TICKET VALUES (88568,42.10,’Adult’,’UK3452′);  
INSERT INTO TICKET VALUES (89720,10.99,’Senior’,’UK3452′);

/\* Attraction rows                        \*/

INSERT INTO ATTRACTION VALUES (10034,’ThunderCoaster’,11,34,’FR1001′);  
INSERT INTO ATTRACTION VALUES (10056,’SpinningTeacups’,4,62,’FR1001′);  
INSERT INTO ATTRACTION VALUES (10067,’FlightToStars’,11,24,’FR1001′);  
INSERT INTO ATTRACTION VALUES (10078,’Ant-Trap’,23,30,’FR1001′);  
INSERT INTO ATTRACTION VALUES (10098,’Carnival’,3,120,’FR1001′);  
INSERT INTO ATTRACTION VALUES (20056,’3D-Lego\_Show’,3,200,’UK3452′);  
INSERT INTO ATTRACTION VALUES (30011,’BlackHole2′,12,34,’UK3452′);  
INSERT INTO ATTRACTION VALUES (30012,’Pirates’,10,42,’UK3452′);  
INSERT INTO ATTRACTION VALUES (30044,’UnderSeaWord’,4,80,’UK3452′);  
INSERT INTO ATTRACTION VALUES (98764,’GoldRush’,5,80,’ZA1342′);  
/\* Attraction with no name \*/  
INSERT INTO ATTRACTION VALUES (10082,NULL,10,40,’ZA1342′);

/\* hours rows                        \*/

INSERT INTO HOURS VALUES (100,10034,6,6.5,’2007-05-18′);  
INSERT INTO HOURS VALUES (100,10034,6,6.5,’2007-05-20′);  
INSERT INTO HOURS VALUES (101,10034,6,6.5,’2007-05-18′);  
INSERT INTO HOURS VALUES (102,30012,3,5.99,’2007-05-23′);  
INSERT INTO HOURS VALUES (102,30044,6,5.99,’2007-05-21′);  
INSERT INTO HOURS VALUES (102,30044,3,5.99,’2007-05-22′);  
INSERT INTO HOURS VALUES (104,30011,6,7.2,’2007-05-21′);  
INSERT INTO HOURS VALUES (104,30012,6,7.2,’2007-05-22′);  
INSERT INTO HOURS VALUES (105,10078,3,8.5,’2007-05-18′);  
INSERT INTO HOURS VALUES (105,10098,3,8.5,’2007-05-18′);  
INSERT INTO HOURS VALUES (105,10098,6,8.5,’2007-05-19′);

/\* SALES rows                        \*/

INSERT INTO SALES VALUES (12781,’FR1001′,’2007-05-18′);  
INSERT INTO SALES VALUES (12782,’FR1001′,’2007-05-18′);  
INSERT INTO SALES VALUES (12783,’FR1001′,’2007-05-18′);  
INSERT INTO SALES VALUES (12784,’FR1001′,’2007-05-18′);  
INSERT INTO SALES VALUES (12785,’FR1001′,’2007-05-18′);  
INSERT INTO SALES VALUES (12786,’FR1001′,’2007-05-18′);  
INSERT INTO SALES VALUES (34534,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34535,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34536,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34537,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34538,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34539,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34540,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (34541,’UK3452′,’2007-05-18′);  
INSERT INTO SALES VALUES (67589,’ZA1342′,’2007-05-18′);  
INSERT INTO SALES VALUES (67590,’ZA1342′,’2007-05-18′);  
INSERT INTO SALES VALUES (67591,’ZA1342′,’2007-05-18′);  
INSERT INTO SALES VALUES (67592,’ZA1342′,’2007-05-18′);  
INSERT INTO SALES VALUES (67593,’ZA1342′,’2007-05-18′);

/\* SALES\_LINE rows                        \*/

INSERT INTO SALES\_LINE VALUES (12781,1,13002,2,69.98);  
INSERT INTO SALES\_LINE VALUES (12781,2,13001,1,14.99);  
INSERT INTO SALES\_LINE VALUES (12782,1,13002,2,69.98);  
INSERT INTO SALES\_LINE VALUES (12783,1,13003,2,41.98);  
INSERT INTO SALES\_LINE VALUES (12784,2,13001,1,14.99);  
INSERT INTO SALES\_LINE VALUES (12785,1,13001,1,14.99);  
INSERT INTO SALES\_LINE VALUES (12785,2,13002,1,34.99);  
INSERT INTO SALES\_LINE VALUES (12785,3,13002,4,139.96);  
INSERT INTO SALES\_LINE VALUES (34534,1,88568,4,168.40);  
INSERT INTO SALES\_LINE VALUES (34534,2,88567,1,22.50);  
INSERT INTO SALES\_LINE VALUES (34534,3,89720,2,21.98);  
INSERT INTO SALES\_LINE VALUES (34535,1,88568,2,84.20);  
INSERT INTO SALES\_LINE VALUES (34536,1,89720,2,21.98);  
INSERT INTO SALES\_LINE VALUES (34537,1,88568,2,84.20);  
INSERT INTO SALES\_LINE VALUES (34537,2,88567,1,22.50);  
INSERT INTO SALES\_LINE VALUES (34538,1,89720,2,21.98);  
INSERT INTO SALES\_LINE VALUES (34539,1,89720,2,21.98);  
INSERT INTO SALES\_LINE VALUES (34539,2,88568,2,84.20);  
INSERT INTO SALES\_LINE VALUES (34540,1,88568,4,168.40);  
INSERT INTO SALES\_LINE VALUES (34540,2,88567,1,22.50);  
INSERT INTO SALES\_LINE VALUES (34540,3,89720,2,21.98);  
INSERT INTO SALES\_LINE VALUES (34541,1,88568,2,84.20);  
INSERT INTO SALES\_LINE VALUES (67589,1,67833,2,57.34);  
INSERT INTO SALES\_LINE VALUES (67589,2,67832,2,37.12);  
INSERT INTO SALES\_LINE VALUES (67590,1,67833,2,57.34);  
INSERT INTO SALES\_LINE VALUES (67590,2,67832,2,37.12);  
INSERT INTO SALES\_LINE VALUES (67591,1,67832,1,18.56);  
INSERT INTO SALES\_LINE VALUES (67591,2,67855,1,12.12);  
INSERT INTO SALES\_LINE VALUES (67592,1,67833,4,114.68);  
INSERT INTO SALES\_LINE VALUES (67593,1,67833,2,57.34);  
INSERT INTO SALES\_LINE VALUES (67593,2,67832,2,37.12);