

ASJID TAHIR

19p-0085

DATABASE LAB

LAB TASK # 02:

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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),
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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,
HOURLY_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),
CONSTRAINT FK_SALES_LINE_TICKET FOREIGN KEY (TICKET_NO)
REFERENCES TICKET(TICKET_NO));

INSERT INTO THEMEPARK VALUES ('FR1001', 'FairyLand', 'PARIS', 'FR');
INSERT INTO THEMEPARK VALUES ('UK3452', 'PleasureLand', 'STOKE', 'UK');
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 (88567, 22.50, 'Child', 'UK3452');

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INSERT INTO TICKET VALUES (88568,42.10,'Adult','UK3452');
INSERT INTO TICKET VALUES (89720,10.99,'Senior','UK3452');

--TASK1

INSERT INTO THEMEPARK VALUES ('AU1001','SkiWorld','AU','UK');
INSERT INTO THEMEPARK VALUES ('GR5001','ROBOLAND','GR','SP');
--TASK2

INSERT INTO EMPLOYEE VALUES ('2049','Mr','Rahat','Nouman','1990-12-20','2015-5-5','7253','502-4934','AU1001');

--TASK3
UPDATE THEMEPARK
SET PARK_NAME ='MiniLand'
WHERE PARK_NAME='SkiWorld';

--Task4

DELETE FROM THEMEPARK
WHERE PARK_NAME='RoboLand';

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XAMP SHELL:

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Setting environment for using XAMPP for Windows.
Asjid Tahir@AJI1 c:\xampp
# mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.22-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE 19P-0085 ASJIDTAHIR
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '-0085 ASJIDTAHIR' at line 1
MariaDB [(none)]> CREATE DATABASE 19P-0085ASJIDTAHIR
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '-0085ASJIDTAHIR' at line 1
MariaDB [(none)]> CREATE DATABASE 19P0085_ASJIDTAHIR
-> ;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> USE 19P-0085ASJIDTAHIR;
ERROR 1049 (42000): Unknown database '19p-0085asjiddahir'
MariaDB [(none)]> USE 19P0085_ASJIDTAHIR
ERROR 1049 (42000): Unknown database '19poo85_asjiddahir'
MariaDB [(none)]> USE 19P0085_ASJIDTAHIR;
ERROR 1049 (42000): Unknown database '19poo85_asjiddahir'
MariaDB [(none)]> USE 190085_ASJIDTAHIR;
ERROR 1049 (42000): Unknown database '190085_asjiddahir'
MariaDB [(none)]> USE 19P0085_ASJIDTAHIR;
Database changed
MariaDB [19P0085_ASJIDTAHIR]> source C:\Users\ENVY\Downloads\Data_Base\themepark.sql
Query OK, 0 rows affected (0.028 sec)

Query OK, 0 rows affected (0.027 sec)

Query OK, 0 rows affected (0.027 sec)

Query OK, 0 rows affected (0.025 sec)

Query OK, 0 rows affected, 1 warning (0.028 sec)

Query OK, 0 rows affected (0.027 sec)

Query OK, 0 rows affected, 1 warning (0.027 sec)

MariaDB [19P0085_ASJIDTAHIR]> show tables

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Query OK, 0 rows affected, 1 warning (0.027 sec)

MariaDB [19P0085_ASJIDTAHIR]> show tables
->
+-----+
| Tables_in_19p0085_asjdtahir |
+-----+
| attraction                    |
| employee                     |
| hours                         |
| sales                         |
| sales_line                    |
| themepark                     |
| ticket                        |
+-----+
7 rows in set (0.001 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (88567,22.50,'Child','UK3452');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('19p0085_asjdtahir'.`ticket`, CONSTRAINT `FK_TICKET_PARK` FOREIGN KEY (`PARK_CODE`) REFERENCES `themepark` (`PARK_CODE`))
MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (88568,42.10,'Adult','UK3452');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('19p0085_asjdtahir'.`ticket`, CONSTRAINT `FK_TICKET_PARK` FOREIGN KEY (`PARK_CODE`) REFERENCES `themepark` (`PARK_CODE`))
MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (89720,10.99,'Senior','UK3452');INSERT INTO THEMEPARK VALUES ('FR1001','FairyLand','PARIS','FR');
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('19p0085_asjdtahir'.`ticket`, CONSTRAINT `FK_TICKET_PARK` FOREIGN KEY (`PARK_CODE`) REFERENCES `themepark` (`PARK_CODE`))
Query OK, 1 row affected (0.003 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO THEMEPARK VALUES ('UK3452','PleasureLand','STOKE','UK');
Query OK, 1 row affected (0.002 sec)

MariaDB [19P0085_ASJIDTAHIR]> SELECT * FROM THEMEPARK;
+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+
| FR1001    | FairyLand | PARIS     | FR            |
| UK3452    | PleasureLand | STOKE    | UK            |
+-----+
2 rows in set (0.001 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (13001,18.99,'Child','FR1001');
Query OK, 1 row affected (0.010 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (13002,34.99,'Adult','FR1001');
Query OK, 1 row affected (0.006 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (13003,20.99,'Senior','FR1001');
Query OK, 1 row affected (0.007 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (88567,22.50,'Child','UK3452');
Query OK, 1 row affected (0.007 sec)

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❏ XAMPP for Windows - mysql -u root

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (13002,34.99,'Adult','FR1001');
Query OK, 1 row affected (0.006 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (13003,20.99,'Senior','FR1001');
Query OK, 1 row affected (0.007 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (88567,22.50,'Child','UK3452');
Query OK, 1 row affected (0.007 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (88568,42.10,'Adult','UK3452');
Query OK, 1 row affected (0.008 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO TICKET VALUES (89720,10.99,'Senior','UK3452');
Query OK, 1 row affected (0.002 sec)

MariaDB [19P0085_ASJIDTAHIR]> SELECT * FROM TICKET
-> ;
+-----+
| TICKET_NO | TICKET_PRICE | TICKET_TYPE | PARK_CODE |
+-----+
| 13001     | 18.99        | Child       | FR1001     |
| 13002     | 34.99        | Adult       | FR1001     |
| 13003     | 20.99        | Senior      | FR1001     |
| 88567     | 22.50        | Child       | UK3452     |
| 88568     | 42.10        | Adult       | UK3452     |
| 89720     | 10.99        | Senior      | UK3452     |
+-----+
6 rows in set (0.000 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO THEMEPARK VALUES ('AU1001','SkiWorld','AU','UK');
Query OK, 1 row affected (0.003 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO THEMEPARK VALUES ('GR5001','ROBOLAND','GR','SP');
Query OK, 1 row affected (0.002 sec)

MariaDB [19P0085_ASJIDTAHIR]> SELECT * FROM THEMEPARK
-> ;
+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+
| AU1001    | SkiWorld  | AU        | UK            |
| FR1001    | FairyLand | PARIS     | FR            |
| GR5001    | ROBOLAND  | GR        | SP            |
| UK3452    | PleasureLand | STOKE    | UK            |
+-----+
4 rows in set (0.000 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO EMPLOYEE VALUES ('2049','Mr','Rahat','Nouman','1990-12-20','2015-5-5','7253','502-4934','AU1001');
Query OK, 1 row affected (0.004 sec)

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C:\xampp> cd C:\xampp> mysql -u root
mysql>
+-----+-----+-----+-----+
| GR5001 | ROBOLAND | GR | SP |
| UK3452 | PleasureLand | STOKE | UK |
+-----+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [19P0085_ASJIDTAHIR]> INSERT INTO EMPLOYEE VALUES ('2049','Mr','Rahat','Nouman','1990-12-20','2015-5-5','7253','502-4934','AU1001');
Query OK, 1 row affected (0.004 sec)

MariaDB [19P0085_ASJIDTAHIR]> SELECT * FROM EMPLOYEE;
+-----+-----+-----+-----+-----+-----+-----+-----+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 2049 | Mr | Rahat | Nouman | 1990-12-20 | 2015-05-05 | 7253 | 502-4934 | AU1001 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [19P0085_ASJIDTAHIR]> UPDATE THEMEPARK
-> SET PARK_NAME ='MiniLand'
-> WHERE PARK_NAME='SkiWorld';
Query OK, 1 row affected (0.003 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [19P0085_ASJIDTAHIR]> SELECT * FROM THEMEPARK
-> ;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| AU1001 | MiniLand | AU | UK |
| FR1001 | FairyLand | PARIS | FR |
| GR5001 | ROBOLAND | GR | SP |
| UK3452 | PleasureLand | STOKE | UK |
+-----+-----+-----+-----+
4 rows in set (0.001 sec)

MariaDB [19P0085_ASJIDTAHIR]> DELETE FROM THEMEPARK
-> WHERE PARK_NAME='RoboLand';
Query OK, 1 row affected (0.003 sec)

MariaDB [19P0085_ASJIDTAHIR]> SELECT * FROM THEMEPARK;
+-----+-----+-----+-----+
| PARK_CODE | PARK_NAME | PARK_CITY | PARK_COUNTRY |
+-----+-----+-----+-----+
| AU1001 | MiniLand | AU | UK |
| FR1001 | FairyLand | PARIS | FR |
| UK3452 | PleasureLand | STOKE | UK |
+-----+-----+-----+-----+
3 rows in set (0.000 sec)

MariaDB [19P0085_ASJIDTAHIR]>

```