CREATE DATABASE Tour;

USE Tour;

CREATE TABLE Guide(GuideNum CHAR(4) PRIMARY KEY,

LastName CHAR(15),

FirstName CHAR(15),

Address CHAR(25),

City CHAR(25),

State CHAR(2),

PostalCode CHAR(5),

PhoneNum CHAR(12),

HireDate DATE );

CREATE TABLE Customer(CustomerNum CHAR(4) PRIMARY KEY,

LastName CHAR(30) NOT NULL,

FirstName CHAR (30),

Address CHAR(35),

City CHAR(35),

State CHAR(2),

PostalCode CHAR(5),

Phone CHAR(12) );

CREATE TABLE Reservation(ReservationID CHAR(7) PRIMARY KEY,

TripID DECIMAL(3,0),

TripDate DATE,

NumPersons DECIMAL(3,0),

TripPrice DECIMAL(6,2),

OtherFees DECIMAL(6,2),

CustomerNum CHAR(4) );

CREATE TABLE Trip(TripID DECIMAL(3,0) PRIMARY KEY,

TripName CHAR(75),

StartLocation CHAR(50),

State CHAR(2),

Distance DECIMAL(4,0),

MaxGrpSize DECIMAL(4,0),

Type CHAR(20),

Season CHAR(20) );

CREATE TABLE TripGuide(TripID DECIMAL(3,0),

GuideNum CHAR(4),

PRIMARY KEY (TripID, GuideNum) );

INSERT INTO Guide VALUES('AM01','Abrams','Miles','54 Quest Ave.','Williamsburg','MA','01096','617-555-6032','2012-06-03'),

('BR01','Boyers','Rita','140 Oakton Rd.','Jaffrey','NH','03452','603-555-2134','2012-03-04'),

('DH01','Devon','Harley','25 Old Ranch Rd.','Sunderland','MA','01375','781-555-7767','2012-01-08'),

('GZ01','Gregory','Zach','7 Moose Head Rd.','Dummer','NH','03588','603-555-8765','2012-11-04'),

('KS01','Kiley','Susan','943 Oakton Rd.','Jaffrey','NH','03452','603-555-1230','2013-04-08'),

('KS02','Kelly','Sam','9 Congaree Ave.','Fraconia','NH','03580','603-555-0003','2013-06-10'),

('MR01','Marston','Ray','24 Shenandoah Rd.','Springfield','MA','01101','781-555-2323','2015-09-14'),

('RH01','Rowan','Hal','12 Heather Rd.','Mount Desert','ME','04660','207-555-9009','2014-06-02'),

('SL01','Stevens','Lori','15 Riverton Rd.','Coventry','VT','05825','802-555-3339','2014-09-05'),

('UG01','Unser','Glory','342 Pineview St.','Danbury','CT','06810','203-555-8534','2015-02-02');

INSERT INTO Customer VALUES('101','Northfold','Liam','9 Old Mill Rd.','Londonderry','NH','03053','603-555-7563'),

('102','Ocean','Arnold','2332 South St. Apt 3','Springfield','MA','01101','413-555-3212'),

('103','Kasuma','Sujata','132 Main St. #1','East Hartford','CT','06108','860-555-0703'),

('104','Goff','Ryan','164A South Bend Rd.','Lowell','MA','01854','781-555-8423'),

('105','McLean','Kyle','345 Lower Ave.','Wolcott','NY','14590','585-555-5321'),

('106','Morontoia','Joseph','156 Scholar St.','Johnston','RI','02919','401-555-4848'),

('107','Marchand','Quinn','76 Cross Rd.','Bath','NH','03740','603-555-0456'),

('108','Rulf','Uschi','32 Sheep Stop St.','Edinboro','PA','16412','814-555-5521'),

('109','Caron','Jean Luc','10 Greenfield St.','Rome','ME','04963','207-555-9643'),

('110','Bers','Martha','65 Granite St.','York','NY','14592','585-555-0111'),

('112','Jones','Laura','373 Highland Ave.','Somerville','MA','02143','857-555-6258'),

('115','Vaccari','Adam','1282 Ocean Walk','Ocean City','NJ','08226','609-555-5231'),

('116','Murakami','Iris','7 Cherry Blossom St.','Weymouth','MA','02188','617-555-6665'),

('119','Chau','Clement','18 Ark Ledge Ln.','Londonderry','VT','05148','802-555-3096'),

('120','Gernowski','Sadie','24 Stump Rd.','Athens','ME','04912','207-555-4507'),

('121','Bretton-Borak','Siam','10 Old Main St.','Cambridge','VT','05444','802-555-3443'),

('122','Hefferson','Orlagh','132 South St. Apt 27','Manchester','NH','03101','603-555-3476'),

('123','Barnett','Larry','25 Stag Rd.','Fairfield','CT','06824','860-555-9876'),

('124','Busa','Karen','12 Foster St.','South Windsor','CT','06074','857-555-5532'),

('125','Peterson','Becca','51 Fredrick St.','Albion','NY','14411','585-555-0900'),

('126','Brown','Brianne','154 Central St.','Vernon','CT','06066','860-555-3234');

INSERT INTO Reservation VALUES('1600001',40,'2016-03-26',2,55.00,0.00,'101'),

('1600002',21,'2016-06-08',2,95.00,0.00,'101'),

('1600003',28,'2016-09-12',1,35.00,0.00,'103'),

('1600004',26,'2016-10-16',4,45.00,15.00,'104'),

('1600005',39,'2016-06-25',5,55.00,0.00,'105'),

('1600006',32,'2016-06-18',1,80.00,20.00,'106'),

('1600007',22,'2016-07-09',8,75.00,10.00,'107'),

('1600008',28,'2016-09-12',2,35.00,0.00,'108'),

('1600009',38,'2016-09-11',2,90.00,40.00,'109'),

('1600010',2,'2016-05-14',3,25.00,0.00,'102'),

('1600011',3,'2016-09-15',3,25.00,0.00,'102'),

('1600012',1,'2016-06-12',4,15.00,0.00,'115'),

('1600013',8,'2016-07-09',1,20.00,5.00,'116'),

('1600014',12,'2016-10-01',2,40.00,5.00,'119'),

('1600015',10,'2016-07-23',1,20.00,0.00,'120'),

('1600016',11,'2016-07-23',6,75.00,15.00,'121'),

('1600017',39,'2016-06-18',3,20.00,5.00,'122'),

('1600018',38,'2016-09-18',4,85.00,15.00,'126'),

('1600019',25,'2016-08-29',2,110.00,25.00,'124'),

('1600020',28,'2016-08-27',2,35.00,10.00,'124'),

('1600021',32,'2016-06-11',3,90.00,20.00,'112'),

('1600022',21,'2016-06-08',1,95.00,25.00,'119'),

('1600024',38,'2016-09-11',1,70.00,30.00,'121'),

('1600025',38,'2016-09-11',2,70.00,45.00,'125'),

('1600026',12,'2016-10-01',2,40.00,0.00,'126'),

('1600029',4,'2016-09-19',4,105.00,25.00,'120'),

('1600030',15,'2016-07-25',6,60.00,15.00,'104');

INSERT INTO Trip VALUES(1,'Arethusa Falls ','Harts Location','NH',5,10,'Hiking','Summer'),

(2,'Mt Ascutney - North Peak','Weathersfield','VT',5,6,'Hiking','Late Spring'),

(3,'Mt Ascutney - West Peak','Weathersfield','VT',6,10,'Hiking','Early Fall'),

(4,'Bradbury Mountain Ride','Lewiston-Auburn','ME',25,8,'Biking','Early Fall'),

(5,'Baldpate Mountain ','North Newry','ME',6,10,'Hiking','Late Spring'),

(6,'Blueberry Mountain','Batchelders Grant','ME',8,8,'Hiking','Early Fall'),

(7,'Bloomfield - Maidstone','Bloomfield','CT',10,6,'Paddling','Late Spring'),

(8,'Black Pond','Lincoln','NH',8,12,'Hiking','Summer'),

(9,'Big Rock Cave','Tamworth','NH',6,10,'Hiking','Summer'),

(10,'Mt. Cardigan - Firescrew','Orange','NH',7,8,'Hiking','Summer'),

(11,'Chocorua Lake Tour','Tamworth','NH',12,15,'Paddling','Summer'),

(12,'Cadillac Mountain Ride','Bar Harbor','ME',8,16,'Biking','Early Fall'),

(13,'Cadillac Mountain','Bar Harbor','ME',7,8,'Hiking','Late Spring'),

(14,'Cannon Mtn','Franconia','NH',6,6,'Hiking','Early Fall'),

(15,'Crawford Path Presidentials Hike','Crawford Notch','NH',16,4,'Hiking','Summer'),

(16,'Cherry Pond','Whitefield','NH',6,16,'Hiking','Spring'),

(17,'Huguenot Head Hike','Bar Harbor','ME',5,10,'Hiking','Early Fall'),

(18,'Low Bald Spot Hike','Pinkam Notch','NH',8,6,'Hiking','Early Fall'),

(19,'Mason?s Farm ','North Stratford','CT',12,7,'Paddling','Late Spring'),

(20,'Lake Mephremagog Tour','Newport','VT',8,15,'Paddling','Late Spring'),

(21,'Long Pond','Rutland','MA',8,12,'Hiking','Summer'),

(22,'Long Pond Tour','Greenville','ME',12,10,'Paddling','Summer'),

(23,'Lower Pond Tour','Poland','ME',8,15,'Paddling','Late Spring'),

(24,'Mt Adams ','Randolph','NH',9,6,'Hiking','Summer'),

(25,'Mount Battie Ride','Camden','ME',20,8,'Biking','Early Fall'),

(26,'Mount Cardigan Hike','Cardigan','NH',4,16,'Hiking','Late Fall'),

(27,'Mt. Chocorua','Albany','NH',6,10,'Hiking','Spring'),

(28,'Mount Garfield Hike','Woodstock','NH',5,10,'Hiking','Early Fall'),

(29,'Metacomet-Monadnock Trail Hike','Pelham','MA',10,12,'Hiking','Late Spring'),

(30,'McLennan Reservation Hike','Tyringham','MA',6,16,'Hiking','Summer'),

(31,'Missisquoi River - VT','Lowell','VT',12,10,'Paddling','Summer'),

(32,'Northern Forest Canoe Trail','Stark','NH',15,10,'Paddling','Summer'),

(33,'Park Loop Ride','Mount Desert Island','ME',27,8,'Biking','Late Spring'),

(34,'Pontook Reservoir Tour','Dummer','NH',15,14,'Paddling','Late Spring'),

(35,'Pisgah State Park Ride','Northborough','NH',12,10,'Biking','Summer'),

(36,'Pondicherry Trail Ride','White Mountains','NH',15,16,'Biking','Late Spring'),

(37,'Seal Beach Harbor','Bar Harbor','ME',5,16,'Hiking','Early Spring'),

(38,'Sawyer River Ride','Mount Carrigain','NH',10,18,'Biking','Early Fall'),

(39,'Welch and Dickey Mountains Hike','Thorton','NH',5,10,'Hiking','Summer'),

(40,'Wachusett Mountain','Princeton','MA',8,8,'Hiking','Early Spring'),

(41,'Westfield River Loop','Fort Fairfield','ME',20,10,'Biking','Late Spring');

INSERT INTO TripGuide VALUES (1,'GZ01'),(1,'RH01'),(2,'AM01'),(2,'SL01'),(3,'SL01'),(4,'BR01'),(4,'GZ01'),(5,'KS01'),(5,'UG01'),(6,'RH01'),(7,'SL01'),(8,'BR01'),(9,'BR01'),(10,'GZ01'),(11,'DH01'),(11,'KS01'),(11,'UG01'),(12,'BR01'),(13,'RH01'),(14,'KS02'),(15,'GZ01'),(16,'KS02'),(17,'RH01'),(18,'KS02'),(19,'DH01'),(20,'SL01'),(21,'AM01'),(22,'UG01'),(23,'DH01'),(23,'SL01'),(25,'BR01'),(26,'GZ01'),(27,'GZ01'),(28,'BR01'),(29,'DH01'),(30,'AM01'),(31,'SL01'),(32,'KS01'),(33,'UG01'),(34,'KS01'),(35,'GZ01'),(36,'KS02'),(37,'RH01'),(38,'KS02'),(39,'BR01'),(40,'DH01'),(41,'BR01');

SELECT TripId, TripName, Type, Season

FROM Trip;

SELECT \* FROM Trip;

SELECT TripName FROM Trip WHERE State NOT LIKE 'NH';

SELECT LastName FROM Guide WHERE State = 'ME';

SELECT TripName, StartLocation FROM Trip WHERE Type = 'Biking';

SELECT TripName FROM Trip WHERE Type = 'Hiking' AND Distance >6 ;

SELECT TripName FROM Trip WHERE Type = 'Paddling' OR State = 'VT';

SELECT Count(TripName) FROM Trip WHERE Type = 'Hiking' OR 'Biking';

SELECT TripName, State FROM Trip WHERE Season LIKE '%Fall' ORDER BY State;

SELECT Count(TripName) FROM Trip WHERE State = 'VT' OR 'CT';

SELECT Count(TripId) FROM Reservation WHERE TripPrice BETWEEN 20 AND 50;

SELECT TripName, Type, MaxGrpSize

FROM Trip, Guide, TripGuide

WHERE Trip.TripID = TripGuide.TripID

AND Guide.GuideNum = TripGuide.GuideNum

AND LastName = 'Kelly';

SELECT ReservationID, LastName, TripName

FROM Reservation, Trip, Customer

WHERE Reservation.TripID = Trip.TripID

AND Reservation.CustomerNum = Customer.CustomerNum

AND NumPersons>4;

SELECT ReservationID, TripName, LastName,

((TripPrice + OtherFees)\*NumPersons) AS total\_cost

FROM Reservation, Trip, Customer

WHERE Reservation.TripID = Trip.TripID

AND Reservation.CustomerNum = Customer.CustomerNum

AND NumPersons > 4;

INSERT INTO Reservation VALUES ('1600031', 12, '2016-10-01', 2, 40, 11.00, 123);

SELECT \* FROM Reservation;

UPDATE Reservation

SET Reservation.OtherFees = 14

WHERE Reservation.OtherFees = 11;

SELECT State, COUNT(DISTINCT TripID)

FROM Trip

GROUP BY State