create schema Daytrip;

create table employees (

employeeID int primary key auto\_increment not null,

firstName varchar(20),

lastName varchar(50),

experience varchar(50),

dailywage$ int not null,

tourDateID int,

tourID int,

FOREIGN KEY (tourdateID) REFERENCES customer\_Tours(tourDateID),

FOREIGN KEY (tourID) REFERENCES tourList(tourID)

);

INSERT INTO employees(firstName, lastName, experience, dailywage$,tourdateID,tourID)

VALUES

('John','Doe','Medium',63,1,1),

('Vaxo','Giorgobiani','Low',71,2,1),

('Jane','Smith','High',58,3,2),

('Michael','Brown','Medium',69,4,2),

('Emily','Johnson','Low',76,5,3),

('Daniel','Taylor','High',53,6,3),

('Olivia','Williams','Medium',77,7,3),

('Alexander','Anderson','Low',64,8,4),

('Sophia','Davis','High',50,9,6),

('William','Miller','Medium',59,10,3)

;

INSERT INTO employees(firstName, lastName, experience, dailywage$,tourdateID,tourID)

VALUES

('John','Doe','Medium',63,null,1),

('Vaxo','Giorgobiani','Low',71,null,1)

;

CREATE TABLE customer\_Tours (

tourDateID INT AUTO\_INCREMENT PRIMARY KEY NOT NULL,

customerName VARCHAR(50),

customerSurname VARCHAR(50),

deposite$ INT,

Revenue$ INT,

tourDate DATE not null,

tourID INT not null,

FOREIGN KEY (tourID) REFERENCES tourList(tourID)

);

ALTER TABLE customer\_Tours

MODIFY tourID INT;

ALTER TABLE customer\_tours

MODIFY tourDate DATE

;

INSERT INTO customer\_Tours (customerName,customerSurname,deposite$,Revenue$,tourdate,tourID)

VALUES

('Ana','Jafaridze',0,130,'2024-01-27',null),

('Tatiana','Volkova',50,130,'2024-01-28',null)

;

INSERT INTO customer\_Tours (customerName,customerSurname,deposite$,Revenue$,tourdate,tourID)

VALUES

('Ana','Jafaridze',0,130,null,null)

;

INSERT INTO customer\_Tours (customerName,customerSurname,deposite$,Revenue$,tourdate,tourID)

VALUES

('Tatiana','Volkova',50,120,'2024-01-22',2),

('Tatiana','Volkova',50,130,'2024-01-24',3),

('Conor','Freeman',50,110,'2024-01-15',1),

('Conor','Freeman',50,110,'2024-01-16',3),

('Conor','Freeman',0,140,'2024-01-17',4),

('James','Smith',50,50,'2024-01-22',6),

('James','Smith',50,50,'2024-01-23',6),

('Yurii','Bondarenko',0,120,'2024-01-25',2),

('Yurii','Bondarenko',0,110,'2024-01-26',1),

('Yurii','Bondarenko',0,130,'2024-01-27',3)

;

create table tourList (

tourID int primary key auto\_increment not null,

tours varchar(50)

);

INSERT INTO tourList (Tours)

VALUES

('CityTour'),

('WineTour'),

('Kazbegitour'),

('HistoryTour'),

('Kutaisitour'),

('Not CHosen')

;

SELECT \* FROM customer\_tours a

JOIN tourlist d ON a.tourID = d.tourID;

SELECT \* FROM employees a

JOIN tourlist d ON a.tourID = d.tourID

JOIN customer\_tours c ON a.tourDateID = c.tourDateID

;

select count(\*) from customer\_tours;

select sum(Revenue$) from customer\_tours;

select sum(Revenue$) from customer\_tours where tourDate < '2024-01-20';

select sum(Revenue$) from customer\_tours WHERE customerName = 'Conor' and customerSurname = 'Freeman';

SELECT tl.tours, SUM(ct.Revenue$) AS TotalRevenue

FROM customer\_Tours ct

JOIN tourList tl ON ct.tourID = tl.tourID

GROUP BY tl.tours;

SELECT tours, sum(ct.Revenue$ - e.dailywage$) as profit

From customer\_tours ct

JOIN tourlist tl ON ct.tourID = tl.tourID

JOIN employees e ON ct.tourDateID = e.tourDateID

GROUP BY tours;

SELECT tourDate, SUM(td.Revenue$ - ct.dailyWage$) AS profit\_by\_Date

FROM customer\_tours td

JOIN employees ct ON ct.tourDateID = td.tourDateID

GROUP BY tourDate;

select \* from customer\_tours ct

JOIN tourlist tr ON ct.touriD = tr.tourID

;

select \* from customer\_tours ct

LEFT JOIN tourlist tr ON ct.touriD = tr.tourID

;

select \* from customer\_tours ct

JOIN employees e ON ct.tourDateID = e.tourDateID

;

select \* from customer\_tours ct

RIGHT JOIN employees e ON ct.tourDateID = e.tourDateID

;

select \* from customer\_tours ct

LEFT OUTER JOIN employees e ON ct.tourDateID = e.tourDateID

UNION

select \* from customer\_tours ct

RIGHT OUTER JOIN employees e ON ct.tourDateID = e.tourDateID

;