UNIVERSITY OF WESTMINSTER

INFORMATICS INSTITUTE OF TECHNOLOGY

4BUIS015C.2 Database Design and Implementation

Coursework

Lecturer Name: Nilumi Perera

Name - Imiyage Chanuka Mayantha

IIT NO – 20240415

UOW No: W2151865

Table of Contents

Contents

Acknowledgement

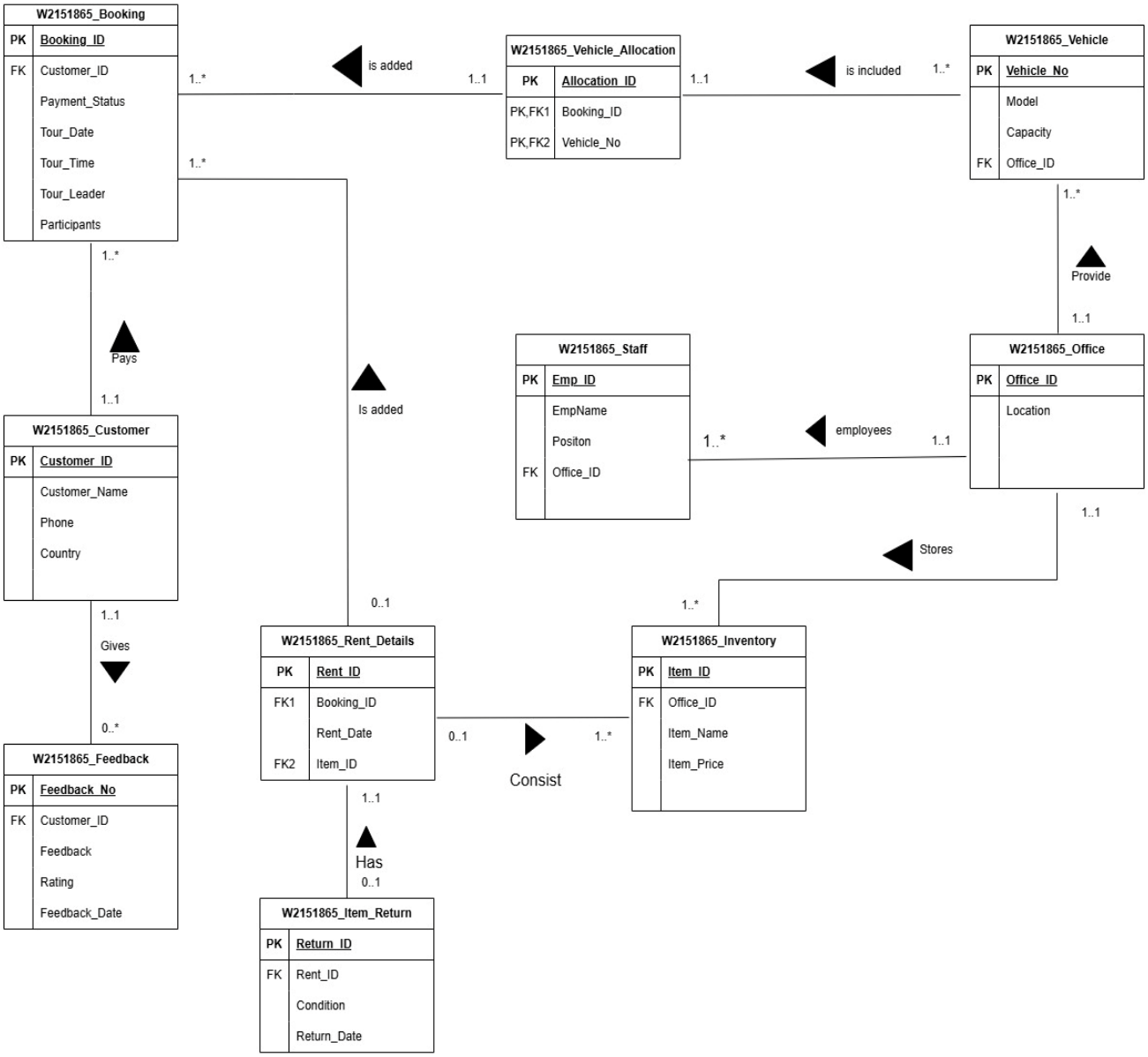
My sincere thanks to Ms. Nilumi for giving us the knowledge and guidance required to complete this coursework. And I would like to thank the other lecturers and tutors whom gave us their utmost support during the course period. Lastly, I would like to thank my batch mates that helped me during the coursework, aiding and guiding me as they could.

Thank you.

Introduction

This report offers a conceptual model and the mapping process to create a logical model for the database application according to the Case Study-‘JungleTrailTours’. And has used SQL language to create, populate and query tables in a database management system environment.

ERD-Entity Relation Diagrams



Assumptions

- Customers can make multiple bookings; each booking belongs to one customer.
- A booking can have multiple vehicles allocated to it and each vehicle assigned to only one booking per allocation
- An office can have multiple vehicles, but each vehicle is assigned to only one office.
- Staff members are assigned to one office and a office employees multiple staff members
- Inventory items are stored in an office and each office can have many items.
- Rent Details connect bookings and Inventory. A single rented item is linked for one booking.
- Customer can provide multiple feedback but each feedback belongs to one customer

ENTITY TABLE

ENTITY	Primary Key(PK)	Foreign Key(FK)	Rationale for PK
Customer	Customer_ID	N/A	Helps to identify the Customer in a unique short code. Rather than name
Booking	Booking_ID	Customer_ID	Each booking has a unique identification
Feedback	Feedback_No	Customer_ID	Each feedback is uniquely identified
Vehicle_Allocation	Allocation_ID Booking_ID Vehicle_No	Booking_ID Vehicle_No	Has given a unique allocation number. And it make sure that each Booking_ID and Vehicle_No is unique
Vehicle	Vehicle_No	Office_ID	Vehicles are uniquely identified.
Office	Office_ID	N/A	With this office branches has given a unique identification
Staff	EMP_ID	Office_ID	Helps to identify each employee uniquely without the use of their name or other complex methods.
Inventory	Item_ID	Office_ID	Helps to identify each item uniquely.
Rent_Details	Rent_ID	Booking_ID Item_ID	Unique number Rent_ID to identify individual rent orders.
Item_Return	Return_ID	Rent_ID	Identify returning rent orders uniquely.

SQL Scripts

Table Creation Scripts

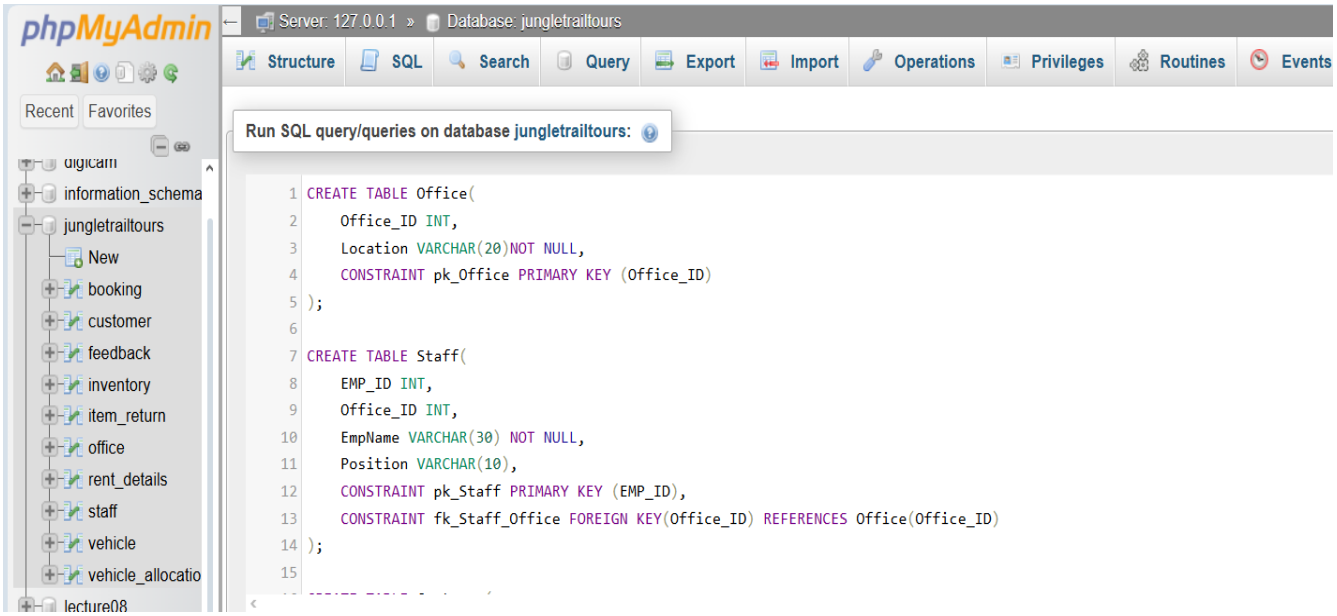
```
   CREATE TABLE Office(
   Office_ID INT,
   Location VARCHAR(20)NOT NULL,
   CONSTRAINT pk_Office PRIMARY KEY (Office_ID)
);


CREATE TABLE Staff(
   EMP_ID INT,
   Office_ID INT,
   EmpName VARCHAR(30) NOT NULL,
   Position VARCHAR(10),
   CONSTRAINT pk_Staff PRIMARY KEY (EMP_ID),
   CONSTRAINT fk_Staff_Office FOREIGN KEY(Office_ID) REFERENCES
Office(Office_ID)
);


CREATE TABLE Customer(
   Customer_ID INT,
   Customer_Name VARCHAR(30) NOT NULL,
   Phone VARCHAR(12),
   Country VARCHAR(15),
   CONSTRAINT pk_Customer PRIMARY KEY (Customer_ID)
);
```

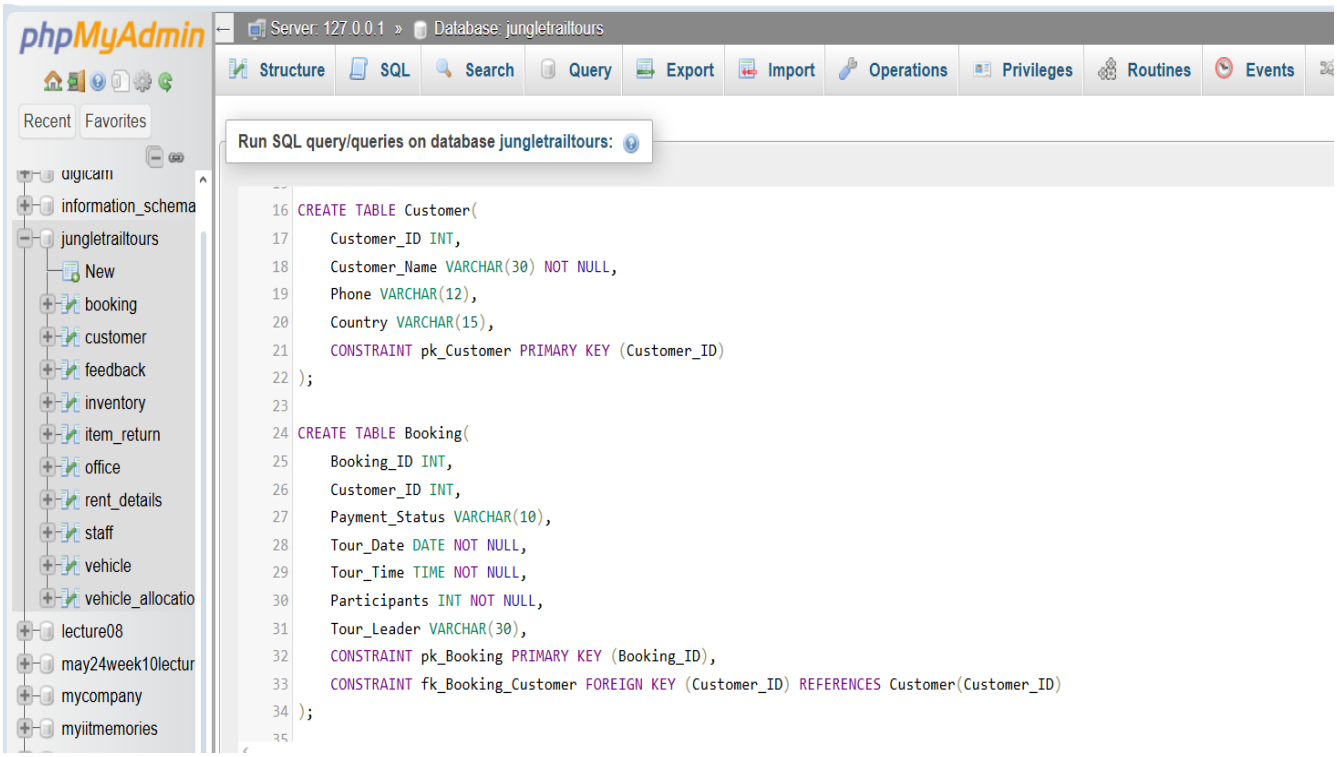
```
CREATE TABLE Booking(
    Booking_ID INT,
    Customer_ID INT,
    Payment_Status VARCHAR(10),
    Tour_Date DATE NOT NULL,
    Tour_Time TIME NOT NULL,
    Participants INT NOT NULL,
    Tour_Leader VARCHAR(30),
    CONSTRAINT pk_Booking PRIMARY KEY (Booking_ID),
    CONSTRAINT fk_Booking_Customer FOREIGN KEY (Customer_ID) REFERENCES
Customer(Customer_ID)
);

CREATE TABLE Vehicle(
    Vehicle_No INT,
    Office_ID INT,
    Model VARCHAR(15) NOT NULL,
    Capacity INT NOT NULL,
    CONSTRAINT pk_Vehicle PRIMARY KEY(Vehicle_No),
    CONSTRAINT fk_Vehicle_Office FOREIGN KEY(Office_ID) REFERENCES
Office(Office_ID)
);

CREATE TABLE Vehicle_Allocation(
    Allocation_ID INT,
    Booking_ID INT,
    Vehicle_No INT,
    CONSTRAINT pk_Vehicle_Allocation PRIMARY KEY(Allocation_ID),
```

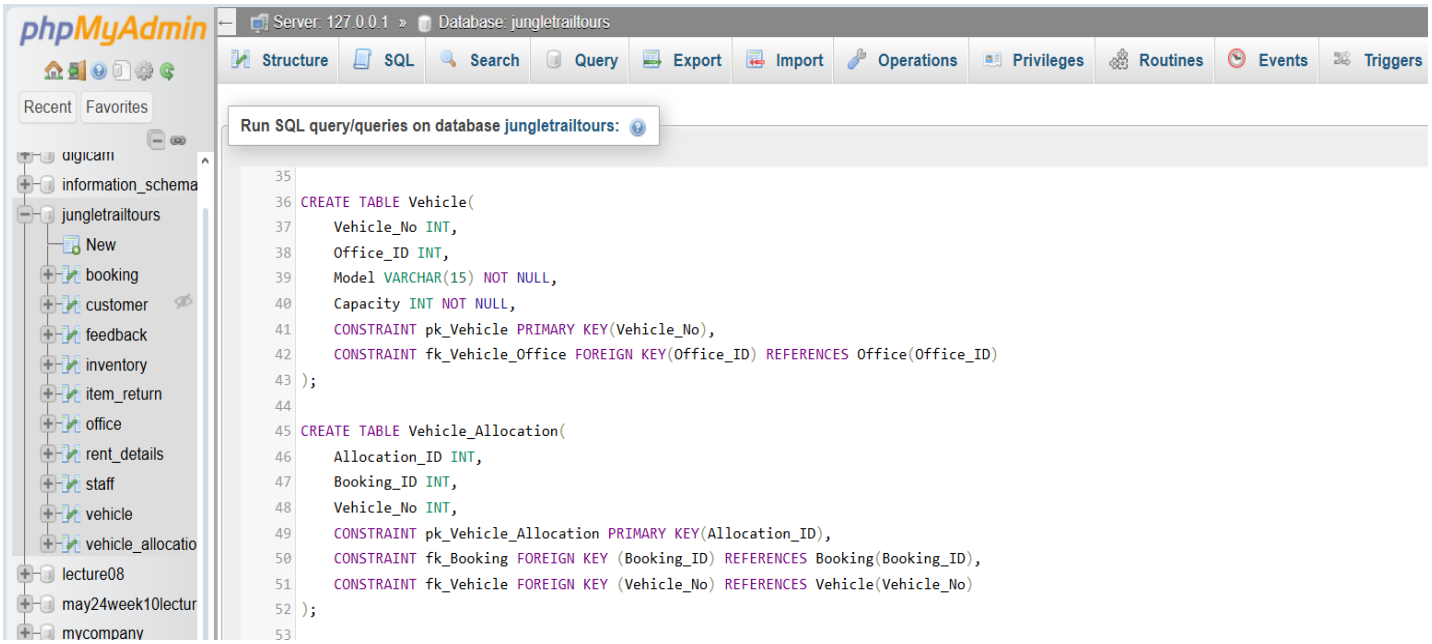
```
    CONSTRAINT fk_Booking FOREIGN KEY (Booking_ID) REFERENCES
Booking(Booking_ID),
    CONSTRAINT fk_Vehicle FOREIGN KEY (Vehicle_No) REFERENCES
Vehicle(Vehicle_No)
);

CREATE TABLE Inventory(
    Item_ID INT,
    Office_ID INT,
    Item_Name VARCHAR(20) NOT NULL,
    Item_Price FLOAT NOT NULL,
    CONSTRAINT pk_Inventory PRIMARY KEY(Item_ID),
    CONSTRAINT fk_Inventory FOREIGN KEY (Office_ID) REFERENCES Office(Office_ID)
);

CREATE TABLE Rent_Details(
    Rent_ID INT,
    Booking_ID INT,
    Rent_Date DATE NOT NULL,
    Item_ID INT,
    CONSTRAINT pk_Rent_Details PRIMARY KEY(Rent_ID),
    CONSTRAINT fk_Rent_Booking FOREIGN KEY(Booking_ID) REFERENCES
Booking(Booking_ID),
    CONSTRAINT fk_Rent_Item FOREIGN KEY(Item_ID) REFERENCES Inventory(Item_ID)
);
```

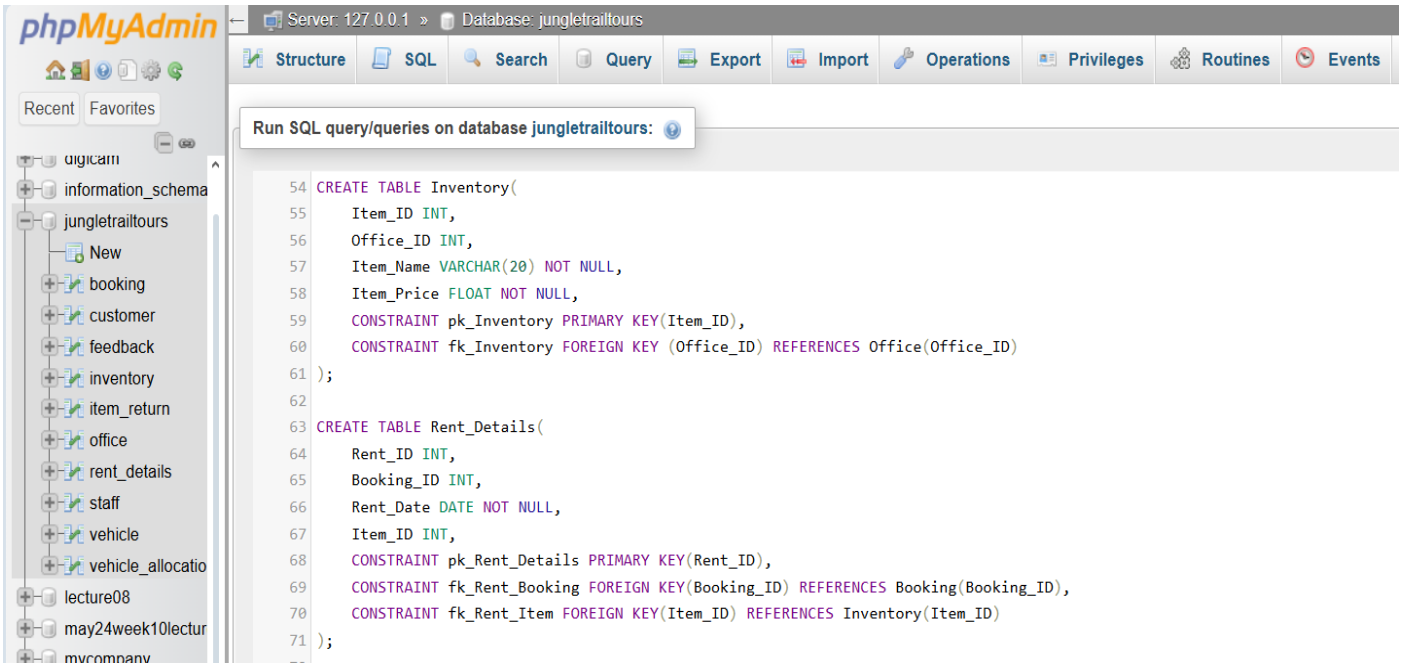
```
CREATE TABLE Item_Return(
    Return_ID INT,
    Rent_ID INT,
    Return_Date DATE NOT NULL,
    Condition_Status VARCHAR(10) NOT NULL,
    CONSTRAINT pk_Item_Return PRIMARY KEY (Return_ID),
    CONSTRAINT fk_Item_Return FOREIGN KEY (Rent_ID) REFERENCES
Rent_Details(Rent_ID)
 );


CREATE TABLE Feedback(
    Feedback_No INT,
    Customer_ID INT,
    Rating INT,
    Feedback VARCHAR(200),
    Feedback_Date DATE NOT NULL,
    CONSTRAINT pk_Feedback PRIMARY KEY (Feedback_No),
    CONSTRAINT fk_Feedbaack_Customer FOREIGN KEY(CUSTOMER_ID) REFERENCES
Customer(Customer_ID)
);
```

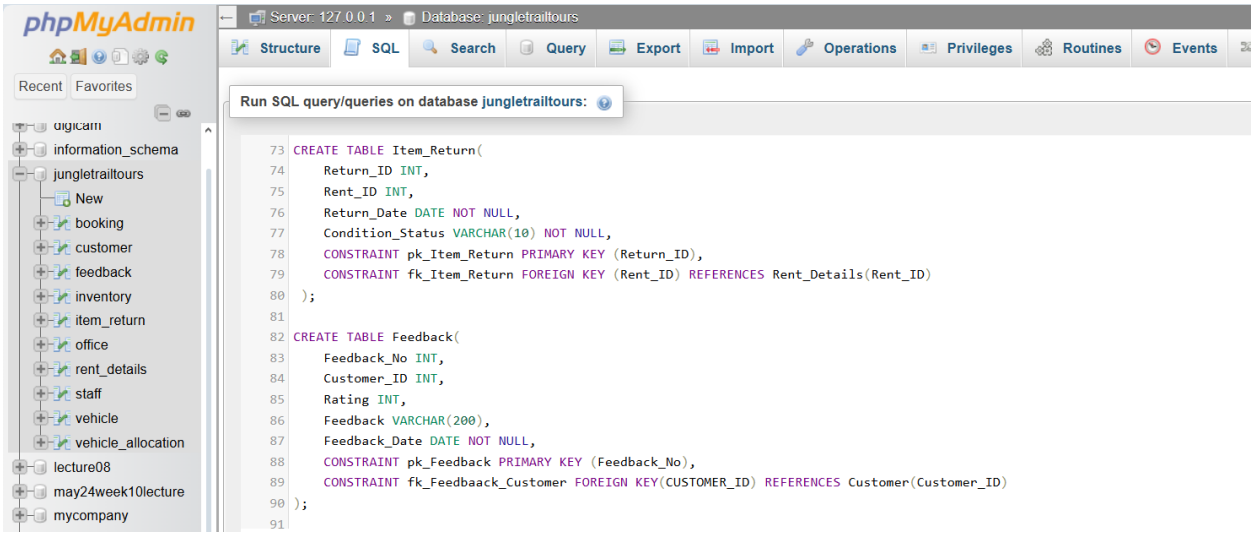
Screenshots






phpMyAdmin
Recent
Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocatio
lecture08
may24week10lectur
mycompany
Server: 127.0.0.1 » Database: jungletrailtours
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Triggers
Run SQL query/queries on database jungletrailtours:
35
36 CREATE TABLE Vehicle(
37 Vehicle_No INT,
38 Office_ID INT,
39 Model VARCHAR(15) NOT NULL,
40 Capacity INT NOT NULL,
41 CONSTRAINT pk_Vehicle PRIMARY KEY(Vehicle_No),
42 CONSTRAINT fk_Vehicle_Office FOREIGN KEY(Office_ID) REFERENCES Office(Office_ID)
43);
44
45 CREATE TABLE Vehicle_Allocation(
46 Allocation_ID INT,
47 Booking_ID INT,
48 Vehicle_No INT,
49 CONSTRAINT pk_Vehicle_Allocation PRIMARY KEY(Allocation_ID),
50 CONSTRAINT fk_Booking FOREIGN KEY (Booking_ID) REFERENCES Booking(Booking_ID),
51 CONSTRAINT fk_Vehicle FOREIGN KEY (Vehicle_No) REFERENCES Vehicle(Vehicle_No)
52);
53


phpMyAdmin
Recent
Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocatio
lecture08
may24week10lectur
mycompany
Server: 127.0.0.1 » Database: jungletrailtours
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Run SQL query/queries on database jungletrailtours:
54 CREATE TABLE Inventory(
55 Item_ID INT,
56 Office_ID INT,
57 Item_Name VARCHAR(20) NOT NULL,
58 Item_Price FLOAT NOT NULL,
59 CONSTRAINT pk_Inventory PRIMARY KEY(Item_ID),
60 CONSTRAINT fk_Inventory FOREIGN KEY (Office_ID) REFERENCES Office(Office_ID)
61);
62
63 CREATE TABLE Rent_Details(
64 Rent_ID INT,
65 Booking_ID INT,
66 Rent_Date DATE NOT NULL,
67 Item_ID INT,
68 CONSTRAINT pk_Rent_Details PRIMARY KEY(Rent_ID),
69 CONSTRAINT fk_Rent_Booking FOREIGN KEY(Booking_ID) REFERENCES Booking(Booking_ID),
70 CONSTRAINT fk_Rent_Item FOREIGN KEY(Item_ID) REFERENCES Inventory(Item_ID)
71);


phpMyAdmin
Recent
Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocation
lecture08
may24week10lecture
mycompany
Server: 127.0.0.1 » Database: jungletrailtours
Structure
SQL
Search
Query
Export
Import
Operations
Privileges
Routines
Events
Run SQL query/queries on database jungletrailtours:
CREATE TABLE Item_Return(
Return_ID INT,
Rent_ID INT,
Return_Date DATE NOT NULL,
Condition_Status VARCHAR(10) NOT NULL,
CONSTRAINT pk_Item_Return PRIMARY KEY (Return_ID),
CONSTRAINT fk_Item_Return FOREIGN KEY (Rent_ID) REFERENCES Rent_Details(Rent_ID)
);
CREATE TABLE Feedback(
Feedback_No INT,
Customer_ID INT,
Rating INT,
Feedback VARCHAR(200),
Feedback_Date DATE NOT NULL,
CONSTRAINT pk_Feedback PRIMARY KEY (Feedback_No),
CONSTRAINT fk_Feedbaack_Customer FOREIGN KEY(CUSTOMER_ID) REFERENCES Customer(Customer_ID)
);

Data Input Scripts

```
INSERT INTO Office (Office_ID, Location) VALUES
(1, 'Yala'),
(2, 'Udawalawe'),
(3, 'Singheraja'),
(4, 'Villpaththuwa'),
(5, 'Sigiriya');

INSERT INTO Staff (EMP_ID, Office_ID, EmpName, Position) VALUES
(101, 1, 'Chanuka Mayantha', 'Cordinator'),
(102, 1, 'Sevindu Herath', 'Driver'),
(103, 2, 'Dilanka Gamagedara', 'Tour Guide'),
(104, 2, 'Heshan Imasha', 'Manager'),
(105, 3, 'Anumi Jayasinghe', 'Tour Guide'),
(106, 3, 'Teshara Sanathmi', 'Driver'),
(107, 4, 'Sehath Peris', 'Medic'),
(108, 4, 'Vishmi Himasha', 'Receptionist'),
(109, 5, 'Malitha Manuditha', 'Tour Guide'),
(110, 5, 'Shenal Arosha', 'Driver');

INSERT INTO Customer (Customer_ID, Customer_Name, Phone, Country) VALUES
(20, 'Donald Trump', '1111122222', 'USA'),
(21, 'Keir Starmer', '2222233333', 'UK'),
(22, 'Sharuk Khan', '3333344444', 'India'),
(23, 'Diluka Deshapriya', '4444455555', 'Sri Lanka'),
(24, 'William Martinez', '5555566666', 'Germany'),
(25, 'Padma Katar', '6666677777', 'Maldives'),
```

(26, 'Mahanada Ranjith', '7777788888', 'Sri Lanka'),

(27, 'Salman Khan', '8888899999', 'India'),

(28, 'Maxim Gorky', '9999900000', 'Russia'),

(29, 'Nevanya Semage', '0000011111', 'Sri Lanka');

INSERT INTO Booking (Booking_ID, Customer_ID, Payment_Status, Tour_Date, Tour_Time, Participants, Tour_Leader) VALUES

(201, 20, 'Paid', '2025-03-22', '08:00:00', 4, 'Percy Jackson'),

(202, 21, 'Pending', '2025-03-23', '10:30:00', 2, 'Thomas Shelby'),

(203, 22, 'Paid', '2025-03-24', '14:00:00', 5, 'Sharuk Khan'),

(204, 23, 'Paid', '2025-03-25', '09:00:00', 3, 'Diluka Deshapriya'),

(205, 24, 'Pending', '2025-03-26', '07:30:00', 6, 'Napolean Bonaparte'),

(206, 25, 'Paid', '2025-03-27', '11:00:00', 2, 'Alwis Peries'),

(207, 26, 'Paid', '2025-03-28', '13:00:00', 4, 'Mahanada Ranjith'),

(208, 27, 'Pending', '2025-03-29', '16:30:00', 3, 'Deepika Padukone'),

(209, 28, 'Paid', '2025-03-30', '12:00:00', 5, 'Lenin'),

(210, 29, 'Paid', '2025-03-31', '15:00:00', 4, 'Nevanya Semage');

INSERT INTO Feedback (Feedback_No, Customer_ID, Rating, Feedback, Feedback_Date) VALUES

(301, 23, 5, 'Amazing experience! The guide was very knowledgeable.', '2025-03-22'),

(302, 24, 4, 'Great tour, but the vehicle was a bit uncomfortable.', '2025-03-23'),

(303, 26, 5, 'Once in a lifetime experience! Loved every moment.', '2025-03-24'),

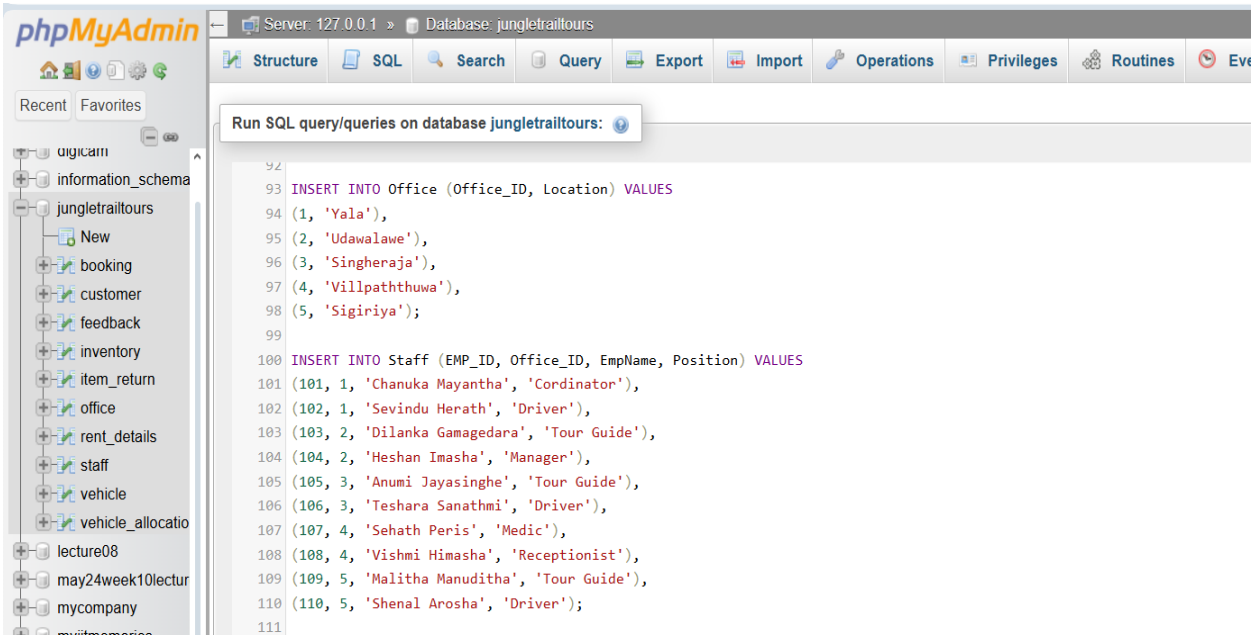
(304, 27, 3, 'The tour was nice, but the weather was bad.', '2025-03-25'),

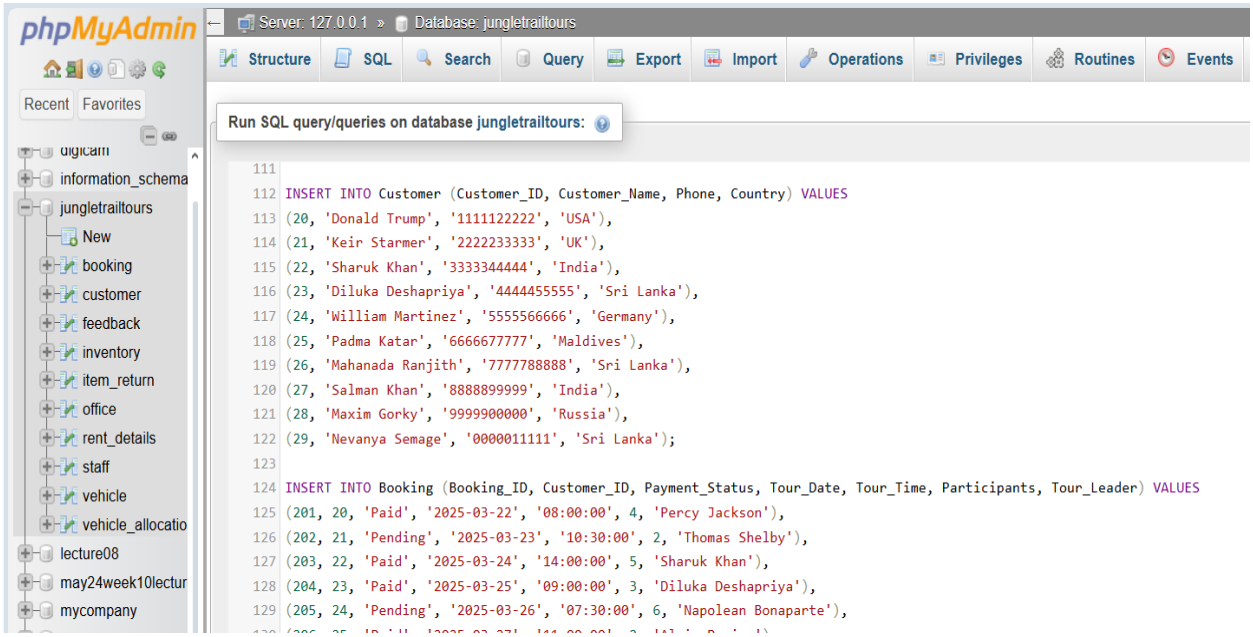
(305, 28, 4, 'Good organization, but the tour could have been longer.', '2025-03-26');

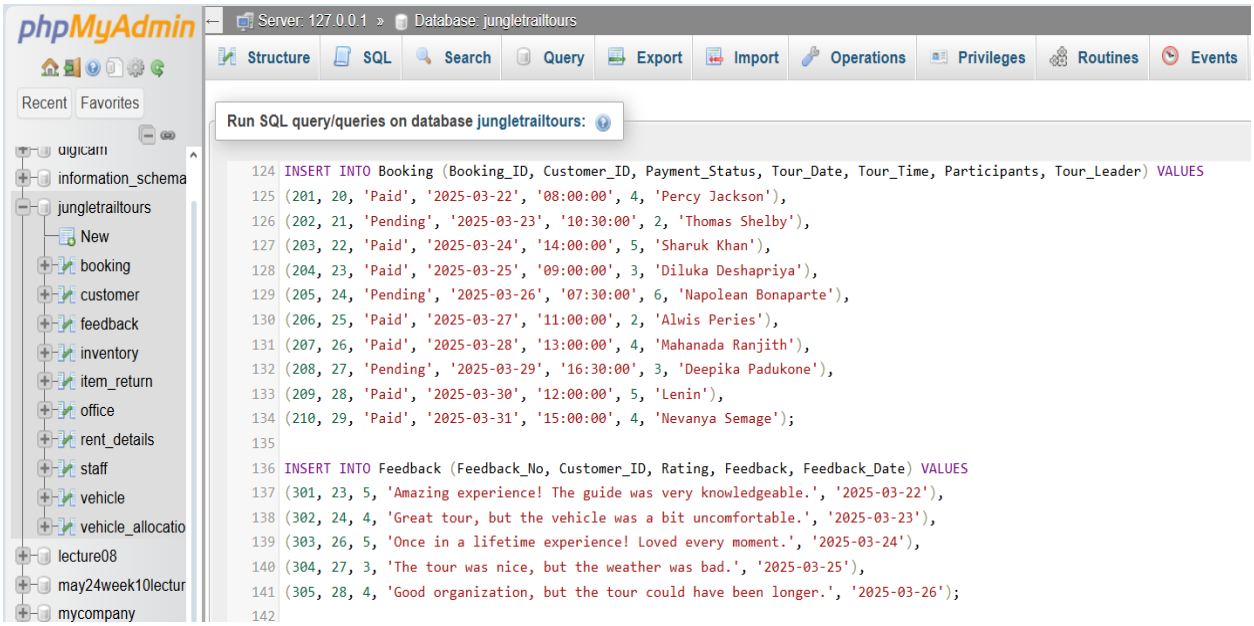
```
INSERT INTO Inventory (Item_ID, Office_ID, Item_Name, Item_Price) VALUES
(468, 1, 'Binoculars', 5000.00),
(469, 1, 'Raincoat', 700.50),
(470, 2, 'Hat', 100.00),
(471, 2, 'Boots', 1500.00),
(472, 3, 'Camera', 5000.00),
(473, 3, 'Flashlight', 300.00),
(474, 4, 'Map', 150.50),
(475, 4, 'Gloves', 350.00),
(476, 5, 'Water Bottle', 200.50),
(477, 5, 'First Aid Kit', 2000.00);

INSERT INTO Rent_Details (Rent_ID, Booking_ID, Rent_Date, Item_ID) VALUES
(523, 201, '2025-03-22', 468),
(524, 202, '2025-03-23', 469),
(535, 203, '2025-03-24', 470),
(545, 204, '2025-03-25', 471),
(556, 205, '2025-03-26', 472);

INSERT INTO Item_Return (Return_ID, Rent_ID, Return_Date, Condition_Status) VALUES
(123, 523, '2025-03-22', 'Good'),
(234, 524, '2025-03-23', 'Damaged'),
(345, 535, '2025-03-24', 'Good'),
(456, 545, '2025-03-25', 'Good'),
(567, 556, '2025-03-26', 'Damaged');
```

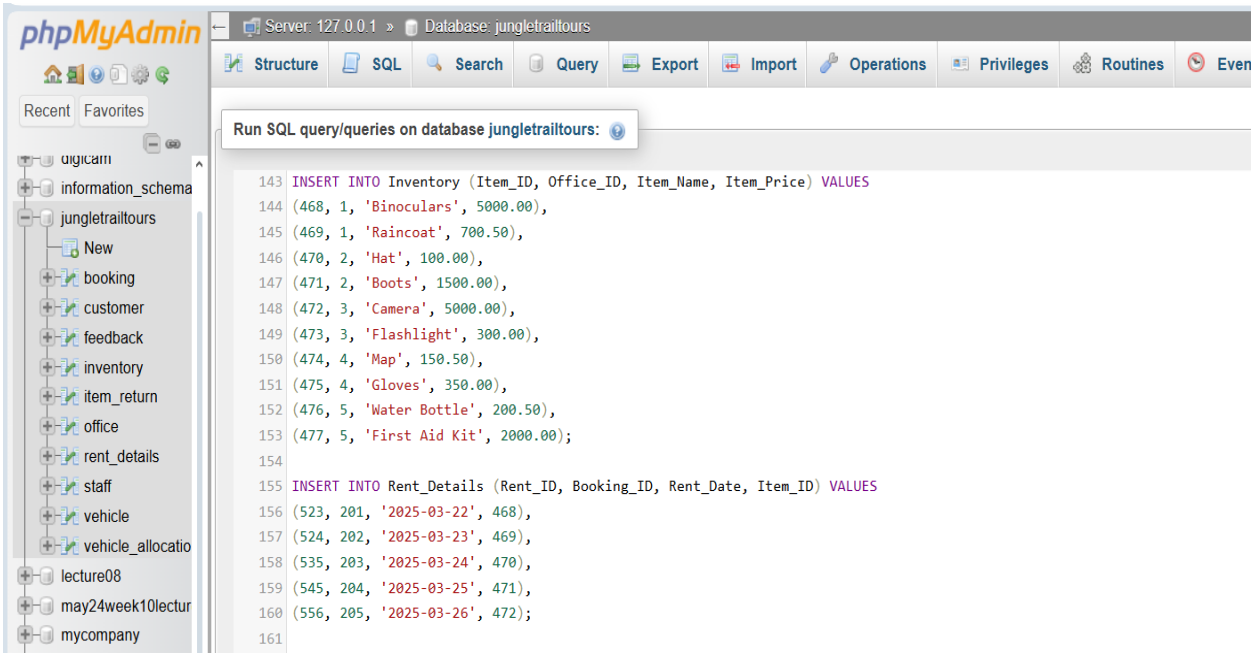
```
INSERT INTO Vehicle (Vehicle_No, Office_ID, Model, Capacity) VALUES
(06, 1, 'Toyota Land Cruiser', 6),
(07, 1, 'Jeep Wrangler', 4),
(08, 2, 'Mitsubishi Pajero', 5),
(09, 2, 'Jeep Wrangler', 4),
(10, 3, 'Toyota Tacoma', 5),
(11, 3, 'Toyota Land Cruiser', 6),
(12, 4, 'Toyota Hilux', 6),
(13, 4, 'Isuzu D-Max', 7),
(14, 5, 'Nissan Frontier', 5),
(15, 5, 'Mercedes-Benz G-Class', 5);

INSERT INTO Vehicle_Allocation (Allocation_ID, Booking_ID, Vehicle_No) VALUES
(401, 201, 06),
(402, 202, 07),
(403, 203, 08),
(404, 204, 09),
(405, 205, 10),
(406, 206, 11),
(407, 207, 12),
(408, 208, 13),
(409, 209, 14),
(410, 210, 15);
```

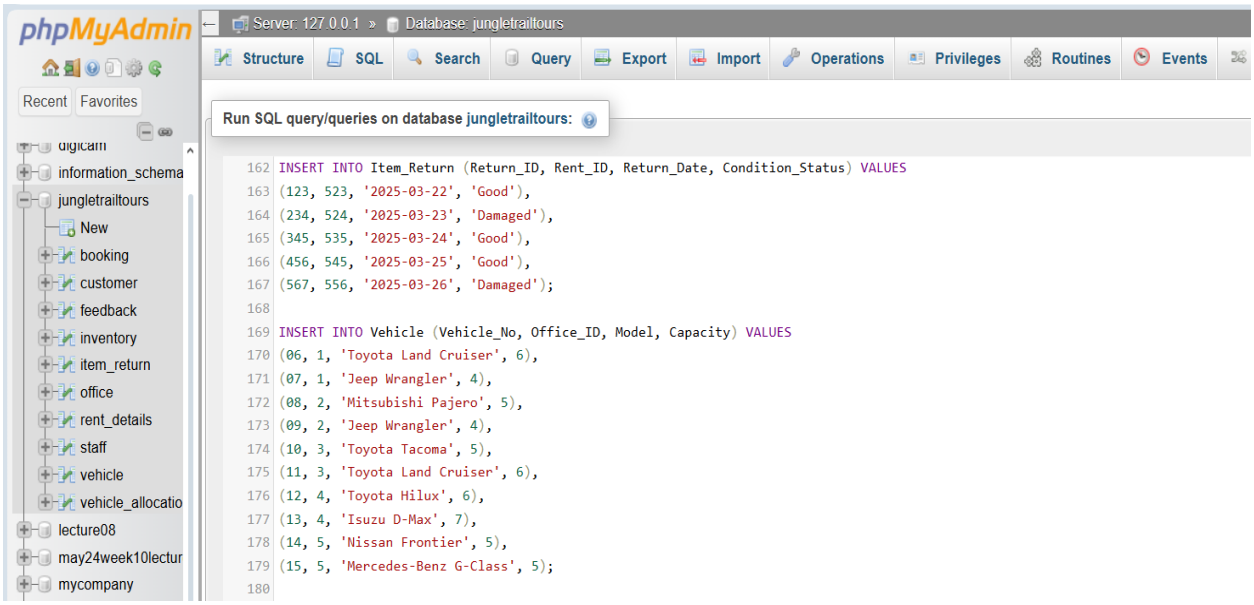
Screenshots

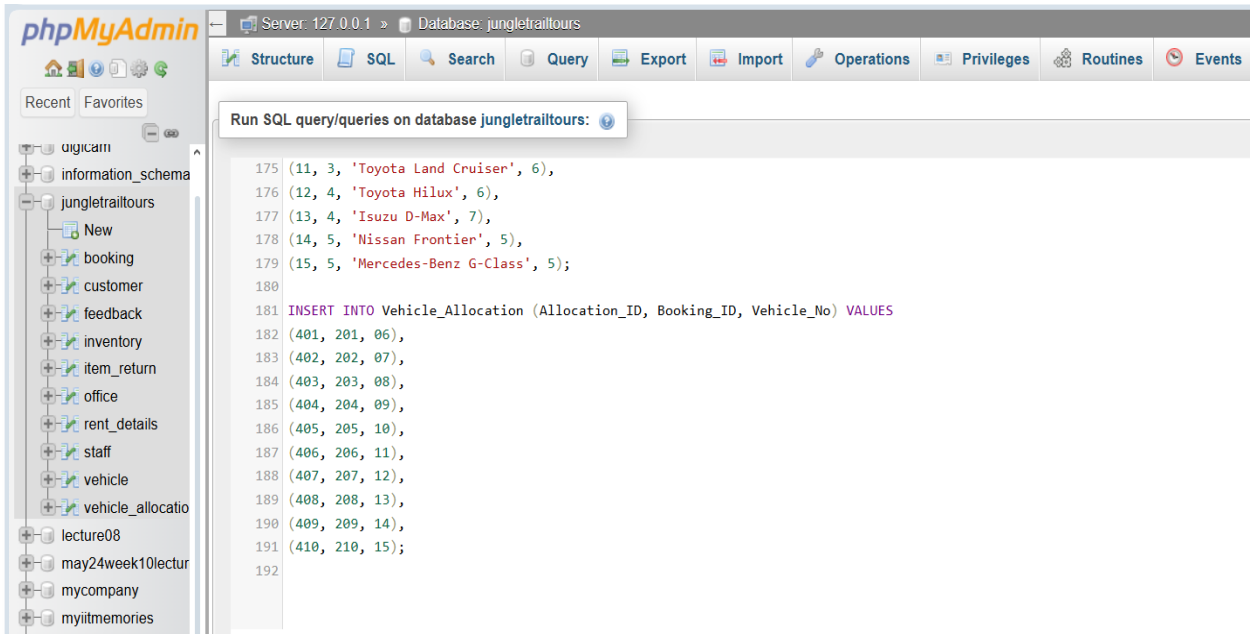





phpMyAdmin
Server: 127.0.0.1 » Database: jungletrailtours
Structure SQL Search Query Export Import Operations Privileges Routines Events
Recent Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocatio
lecture08
may24week10lectur
mycompany
Run SQL query/queries on database jungletrailtours:
INSERT INTO Booking (Booking_ID, Customer_ID, Payment_Status, Tour_Date, Tour_Time, Participants, Tour_Leader) VALUES
(201, 20, 'Paid', '2025-03-22', '08:00:00', 4, 'Percy Jackson'),
(202, 21, 'Pending', '2025-03-23', '10:30:00', 2, 'Thomas Shelby'),
(203, 22, 'Paid', '2025-03-24', '14:00:00', 5, 'Sharuk Khan'),
(204, 23, 'Paid', '2025-03-25', '09:00:00', 3, 'Diluka Deshapriya'),
(205, 24, 'Pending', '2025-03-26', '07:30:00', 6, 'Napolean Bonaparte'),
(206, 25, 'Paid', '2025-03-27', '11:00:00', 2, 'Alwis Peries'),
(207, 26, 'Paid', '2025-03-28', '13:00:00', 4, 'Mahanada Ranjith'),
(208, 27, 'Pending', '2025-03-29', '16:30:00', 3, 'Deepika Padukone'),
(209, 28, 'Paid', '2025-03-30', '12:00:00', 5, 'Lenin'),
(210, 29, 'Paid', '2025-03-31', '15:00:00', 4, 'Nevanya Semage');
INSERT INTO Feedback (Feedback_No, Customer_ID, Rating, Feedback, Feedback_Date) VALUES
(301, 23, 5, 'Amazing experience! The guide was very knowledgeable.', '2025-03-22'),
(302, 24, 4, 'Great tour, but the vehicle was a bit uncomfortable.', '2025-03-23'),
(303, 26, 5, 'Once in a lifetime experience! Loved every moment.', '2025-03-24'),
(304, 27, 3, 'The tour was nice, but the weather was bad.', '2025-03-25'),
(305, 28, 4, 'Good organization, but the tour could have been longer.', '2025-03-26');


phpMyAdmin
Server: 127.0.0.1 » Database: jungletrailtours
Structure SQL Search Query Export Import Operations Privileges Routines Even
Recent Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocatio
lecture08
may24week10lectur
mycompany
Run SQL query/queries on database jungletrailtours:
INSERT INTO Inventory (Item_ID, Office_ID, Item_Name, Item_Price) VALUES
(468, 1, 'Binoculars', 5000.00),
(469, 1, 'Raincoat', 700.50),
(470, 2, 'Hat', 100.00),
(471, 2, 'Boots', 1500.00),
(472, 3, 'Camera', 5000.00),
(473, 3, 'Flashlight', 300.00),
(474, 4, 'Map', 150.50),
(475, 4, 'Gloves', 350.00),
(476, 5, 'Water Bottle', 200.50),
(477, 5, 'First Aid Kit', 2000.00);
INSERT INTO Rent_Details (Rent_ID, Booking_ID, Rent_Date, Item_ID) VALUES
(523, 201, '2025-03-22', 468),
(524, 202, '2025-03-23', 469),
(535, 203, '2025-03-24', 470),
(545, 204, '2025-03-25', 471),
(556, 205, '2025-03-26', 472);


phpMyAdmin
Server: 127.0.0.1 » Database: jungletrailtours
Structure SQL Search Query Export Import Operations Privileges Routines Events
Recent Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocatio
lecture08
may24week10lectur
mycompany
Run SQL query/queries on database jungletrailtours:
INSERT INTO Item_Return (Return_ID, Rent_ID, Return_Date, Condition_Status) VALUES
(123, 523, '2025-03-22', 'Good'),
(234, 524, '2025-03-23', 'Damaged'),
(345, 535, '2025-03-24', 'Good'),
(456, 545, '2025-03-25', 'Good'),
(567, 556, '2025-03-26', 'Damaged');
INSERT INTO Vehicle (Vehicle_No, Office_ID, Model, Capacity) VALUES
(06, 1, 'Toyota Land Cruiser', 6),
(07, 1, 'Jeep Wrangler', 4),
(08, 2, 'Mitsubishi Pajero', 5),
(09, 2, 'Jeep Wrangler', 4),
(10, 3, 'Toyota Tacoma', 5),
(11, 3, 'Toyota Land Cruiser', 6),
(12, 4, 'Toyota Hilux', 6),
(13, 4, 'Isuzu D-Max', 7),
(14, 5, 'Nissan Frontier', 5),
(15, 5, 'Mercedes-Benz G-Class', 5);


phpMyAdmin
Server: 127.0.0.1 » Database: jungletrailtours
Structure SQL Search Query Export Import Operations Privileges Routines Events
Recent Favorites
information_schema
jungletrailtours
New
booking
customer
feedback
inventory
item_return
office
rent_details
staff
vehicle
vehicle_allocatio
lecture08
may24week10lectur
mycompany
myiitmemories
Run SQL query/queries on database jungletrailtours:
(11, 3, 'Toyota Land Cruiser', 6),
(12, 4, 'Toyota Hilux', 6),
(13, 4, 'Isuzu D-Max', 7),
(14, 5, 'Nissan Frontier', 5),
(15, 5, 'Mercedes-Benz G-Class', 5);
INSERT INTO Vehicle_Allocation (Allocation_ID, Booking_ID, Vehicle_No) VALUES
(401, 201, 06),
(402, 202, 07),
(403, 203, 08),
(404, 204, 09),
(405, 205, 10),
(406, 206, 11),
(407, 207, 12),
(408, 208, 13),
(409, 209, 14),
(410, 210, 15);

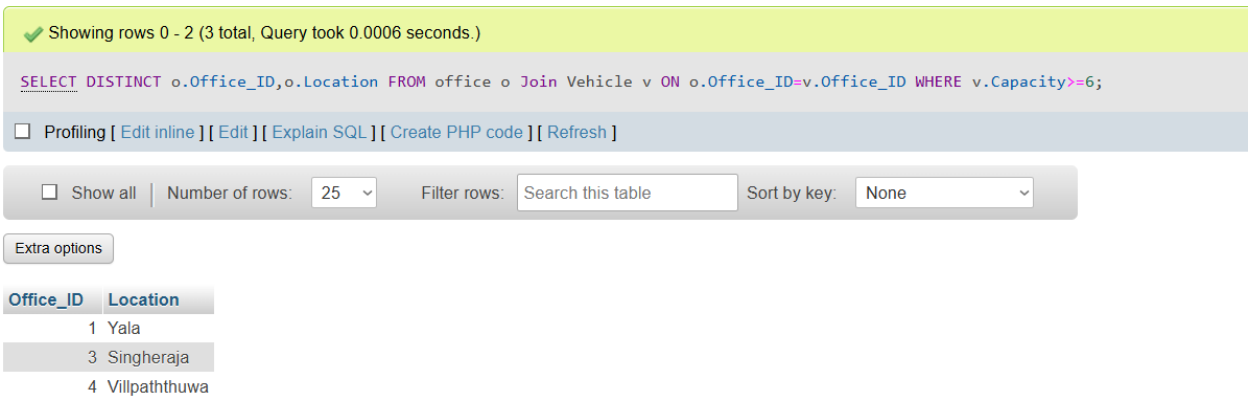
Queries and Outputs

Queries Table

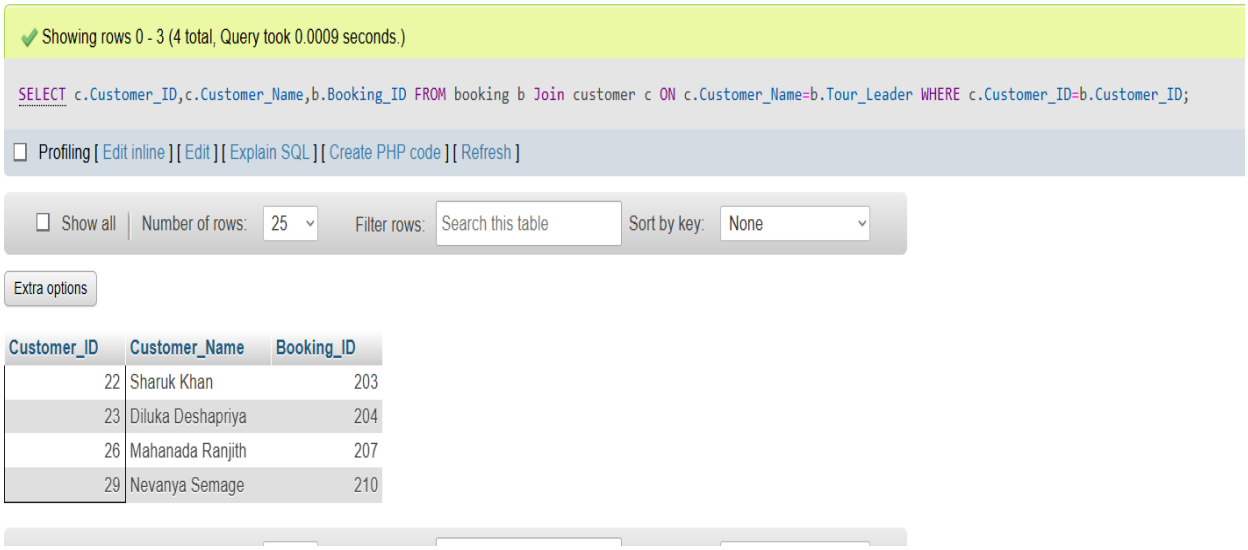
Query No	Purpose	Tables involved	SQL	Correct Execution
1	To find office branches where they have vehicles which can carry more than 6 passengers	Office Vehicle	SELECT DISTINCT o.Office_ID,o.Location FROM office o Join Vehicle v ON o.Office_ID=v.Office_ID WHERE v.Capacity>=6;	Yes
2	Find Customers who booked the Tour and became the tour's own Tour Leader	Booking Customer	SELECT c.Customer_ID,c.Customer_Name,b.Booking_ID FROM booking b Join customer c ON c.Customer_Name=b.Tour_Leader WHERE c.Customer_ID=b.Customer_ID;	Yes
3	Select staff members who are Tour Guides and Drivers.	Staff	SELECT EMP_ID,EmpName,Position FROM staff WHERE Position ='Tour Guide' OR Position='Driver';	Yes
4	To find customers who gave 4 marks or less than 4 marks in rating	Customer Feedback	SELECT c.Customer_ID,c.Customer_Name,f.Rating FROM customer c JOIN feedback f ON c.Customer_ID=f.Customer_ID WHERE f.Rating<=4;	Yes
5	Find customers who have not finalized their payment	Booking Customer	SELECT c.Customer_ID,c.Customer_Name,b.Payment_Status FROM customer c JOIN booking b ON c.Customer_ID=b.Customer_ID WHERE b.Payment_Status!='Paid';	Yes
6	Rental Items which were damaged when returning	Rent Details Inventory Item Return	SELECT d.Item_ID, i.Item_Name, r.Condition_Status FROM item_return r JOIN rent_details d ON r.Rent_ID = d.Rent_ID JOIN inventory i ON d.Item_ID = i.Item_ID	Yes

			WHERE r.Condition_Status <> 'Good';	
7	Selecting rental Items where the rental price is more than 1500.00	Inventory	SELECT Item_ID,Item_Name,Item_Price FROM inventory WHERE Item_Price>1500.00;	Yes
8	Customers who gave feedback on their Tour	Customer Feedback	SELECT c.Customer_ID,c.Customer_Name FROM customer c JOIN feedback f ON c.Customer_ID=f.Customer_ID;	Yes
9	Select Tour Participants where the customer is not in 'Sri Lanka' and group the numbers into countries	Customer Booking	SELECT c.Country,b.Participants FROM customer c JOIN booking b ON b.Customer_ID= c.Customer_ID WHERE c.Country<>'Sri Lanka' GROUP BY c.Country;	Yes
10	To see how many vehicles are allocated to each office	Vehicle Office	SELECT v.Office_ID,o.Location, COUNT(v.Vehicle_No) AS Vehicle_Count FROM vehicle v JOIN office o ON v.Office_ID=o.Office_ID GROUP BY v.Office_ID;	Yes

Output: Query No 1:



Output: Query No 2:



Showing rows 0 - 3 (4 total, Query took 0.0009 seconds.)

```
SELECT c.Customer_ID,c.Customer_Name,b.Booking_ID FROM booking b Join customer c ON c.Customer_Name=b.Tour_Leader WHERE c.Customer_ID=b.Customer_ID;
```

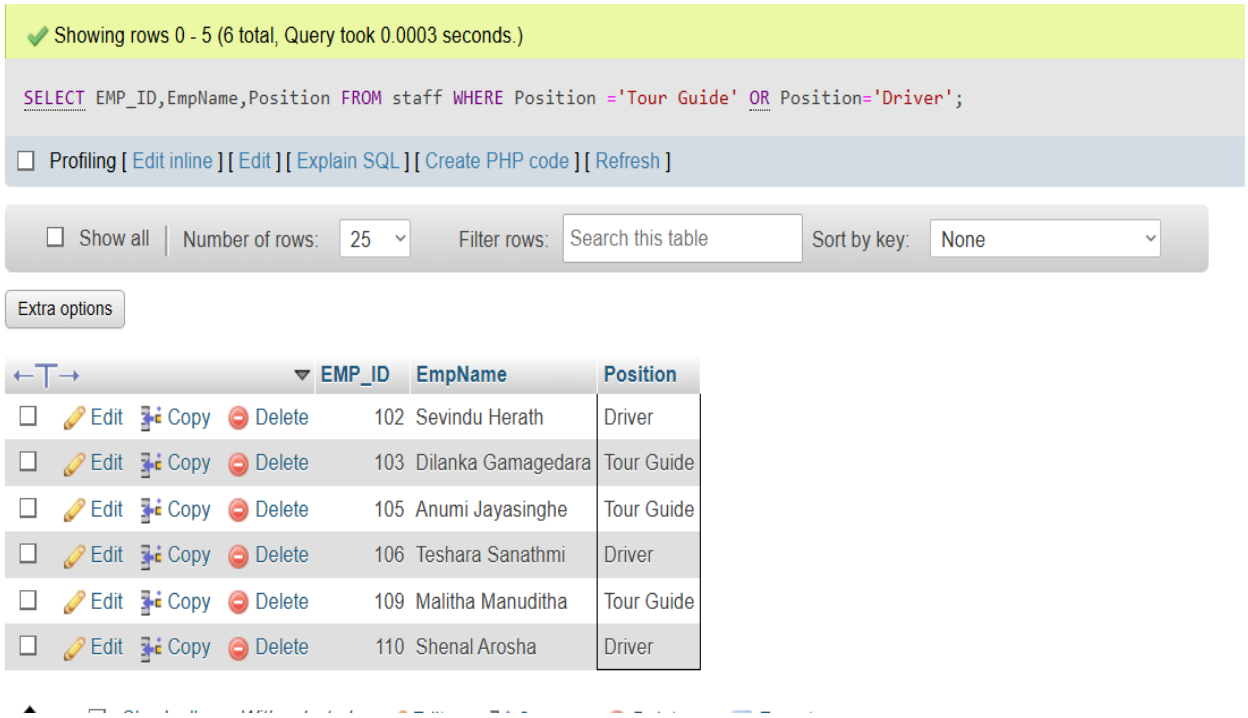
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

Customer_ID	Customer_Name	Booking_ID
22	Sharuk Khan	203
23	Diluka Deshapriya	204
26	Mahanada Ranjith	207
29	Nevanya Semage	210

Output: Query No 3:



Showing rows 0 - 5 (6 total, Query took 0.0003 seconds.)

```
SELECT EMP_ID,EmpName,Position FROM staff WHERE Position ='Tour Guide' OR Position='Driver';
```

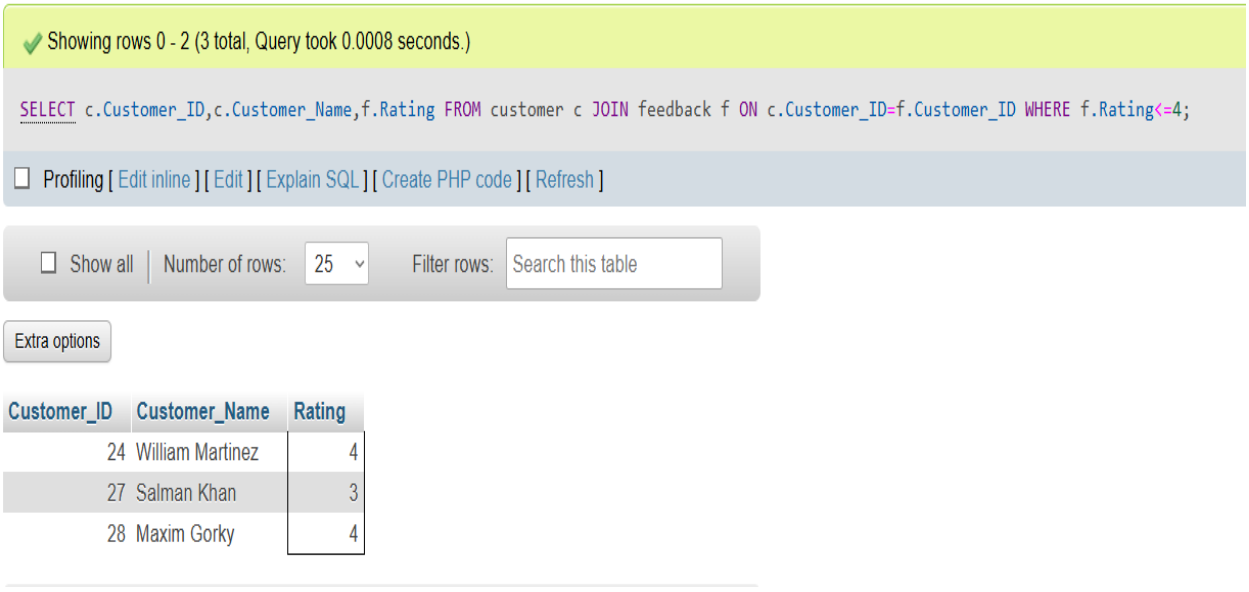
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	EMP_ID	EmpName	Position
Edit Copy Delete	102	Sevindu Herath	Driver
Edit Copy Delete	103	Dilanka Gamagedara	Tour Guide
Edit Copy Delete	105	Anumi Jayasinghe	Tour Guide
Edit Copy Delete	106	Teshara Sanathmi	Driver
Edit Copy Delete	109	Malitha Manuditha	Tour Guide
Edit Copy Delete	110	Shenal Arosha	Driver

Output: Query No 4:



Showing rows 0 - 2 (3 total, Query took 0.0008 seconds.)

```
SELECT c.Customer_ID,c.Customer_Name,f.Rating FROM customer c JOIN feedback f ON c.Customer_ID=f.Customer_ID WHERE f.Rating<=4;
```

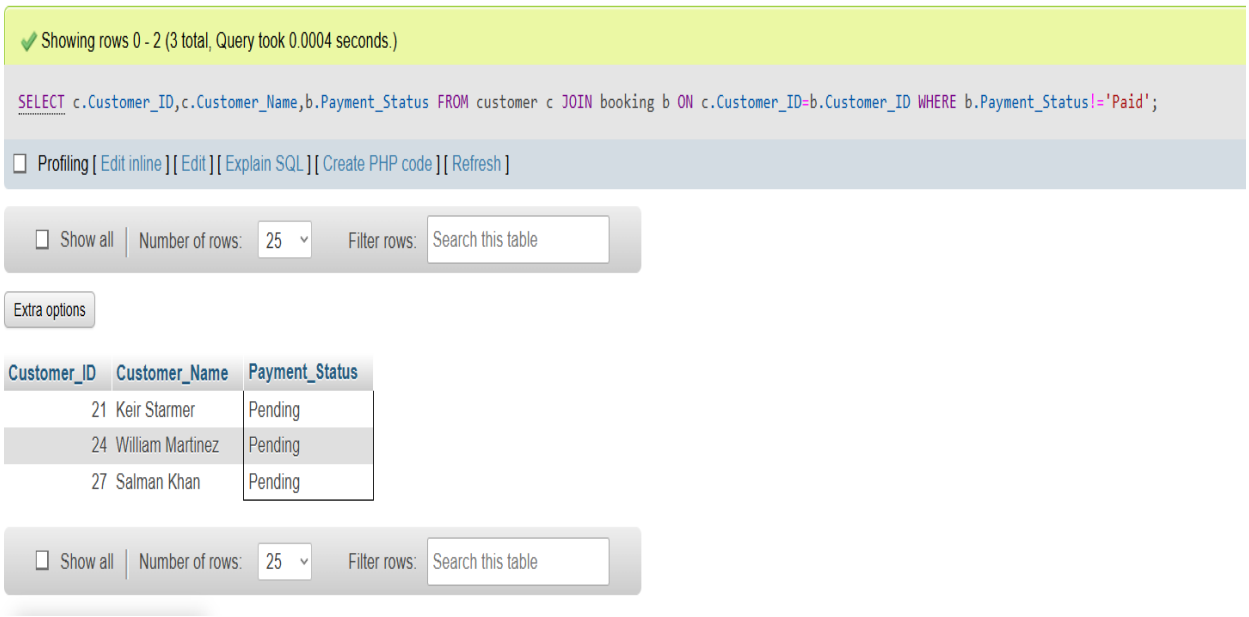
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

Customer_ID	Customer_Name	Rating
24	William Martinez	4
27	Salman Khan	3
28	Maxim Gorky	4

Output: Query No 5:



Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT c.Customer_ID,c.Customer_Name,b.Payment_Status FROM customer c JOIN booking b ON c.Customer_ID=b.Customer_ID WHERE b.Payment_Status!='Paid';
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

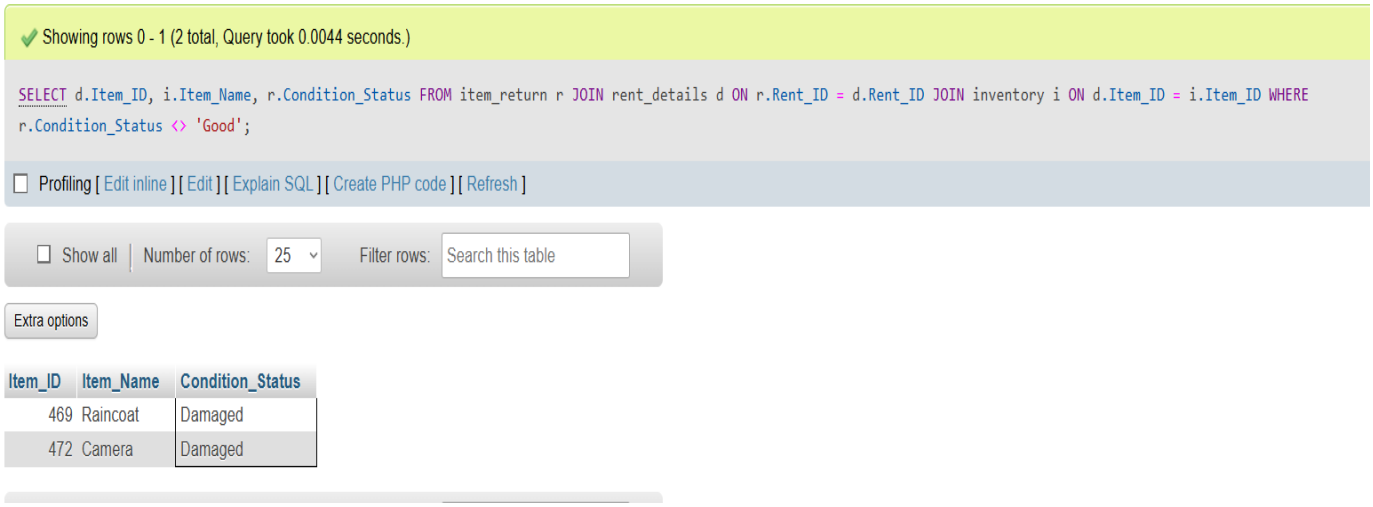
Show all | Number of rows: 25 Filter rows: Search this table

Extra options

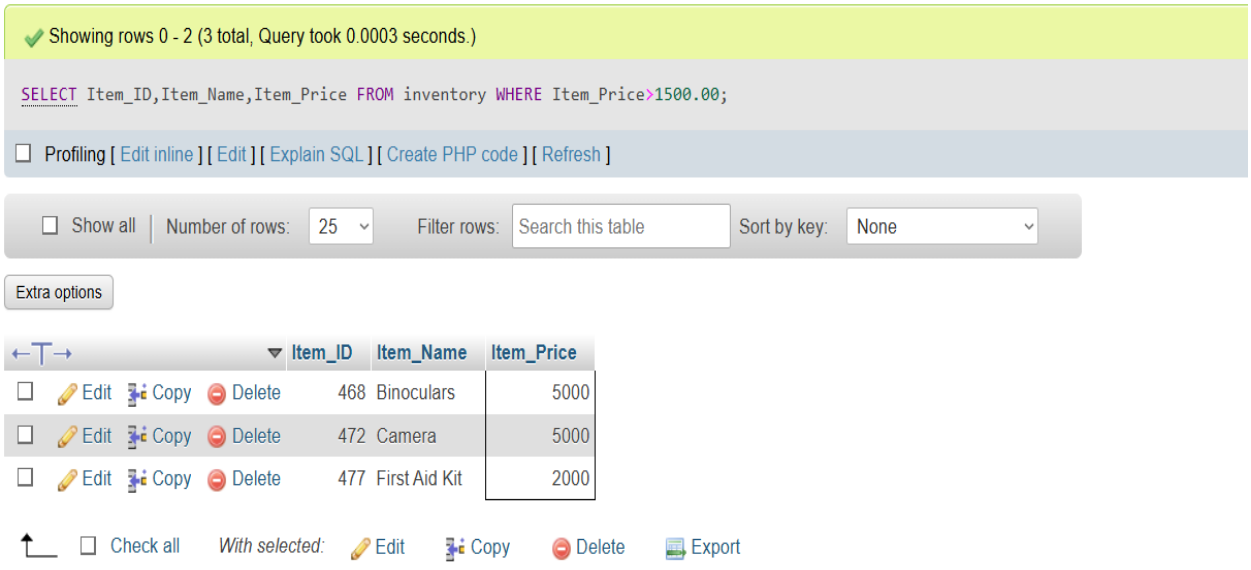
Customer_ID	Customer_Name	Payment_Status
21	Keir Starmer	Pending
24	William Martinez	Pending
27	Salman Khan	Pending

Show all | Number of rows: 25 Filter rows: Search this table

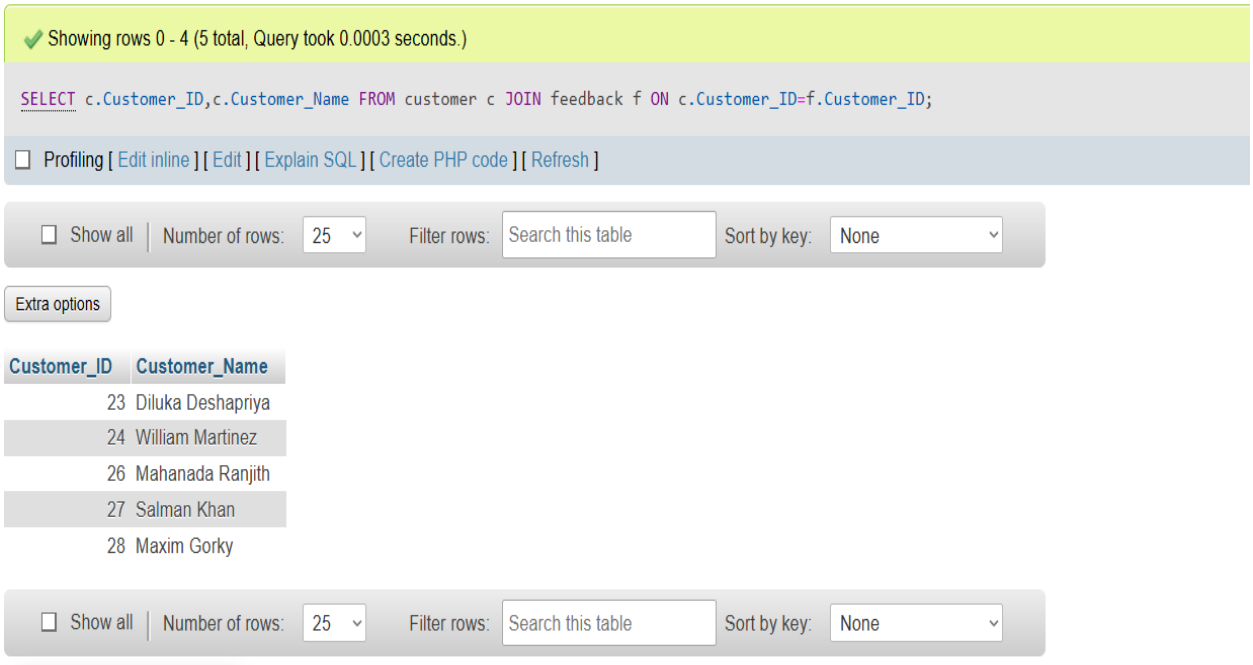
Output: Query No 6:



Output: Query No 7:



Output: Query No 8:



Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT c.Customer_ID,c.Customer_Name FROM customer c JOIN feedback f ON c.Customer_ID=f.Customer_ID;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

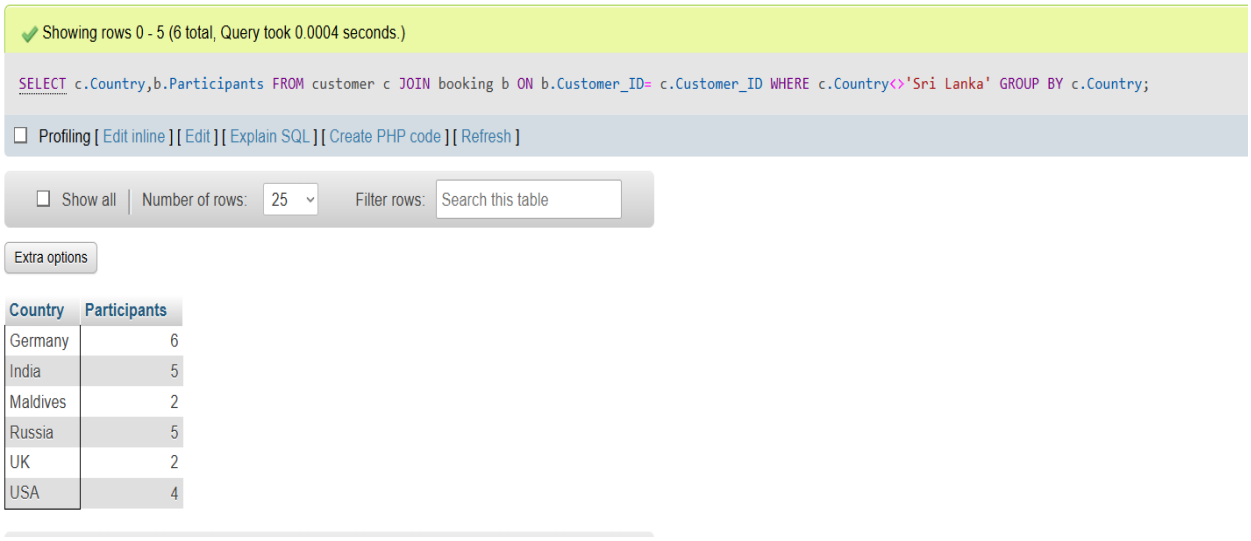
Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

Customer_ID	Customer_Name
23	Diluka Deshapriya
24	William Martinez
26	Mahanada Ranjith
27	Salman Khan
28	Maxim Gorky

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Output: Query No 9:



Showing rows 0 - 5 (6 total, Query took 0.0004 seconds.)

```
SELECT c.Country,b.Participants FROM customer c JOIN booking b ON b.Customer_ID= c.Customer_ID WHERE c.Country<>'Sri Lanka' GROUP BY c.Country;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

Extra options

Country	Participants
Germany	6
India	5
Maldives	2
Russia	5
UK	2
USA	4

Output: Query No 10: