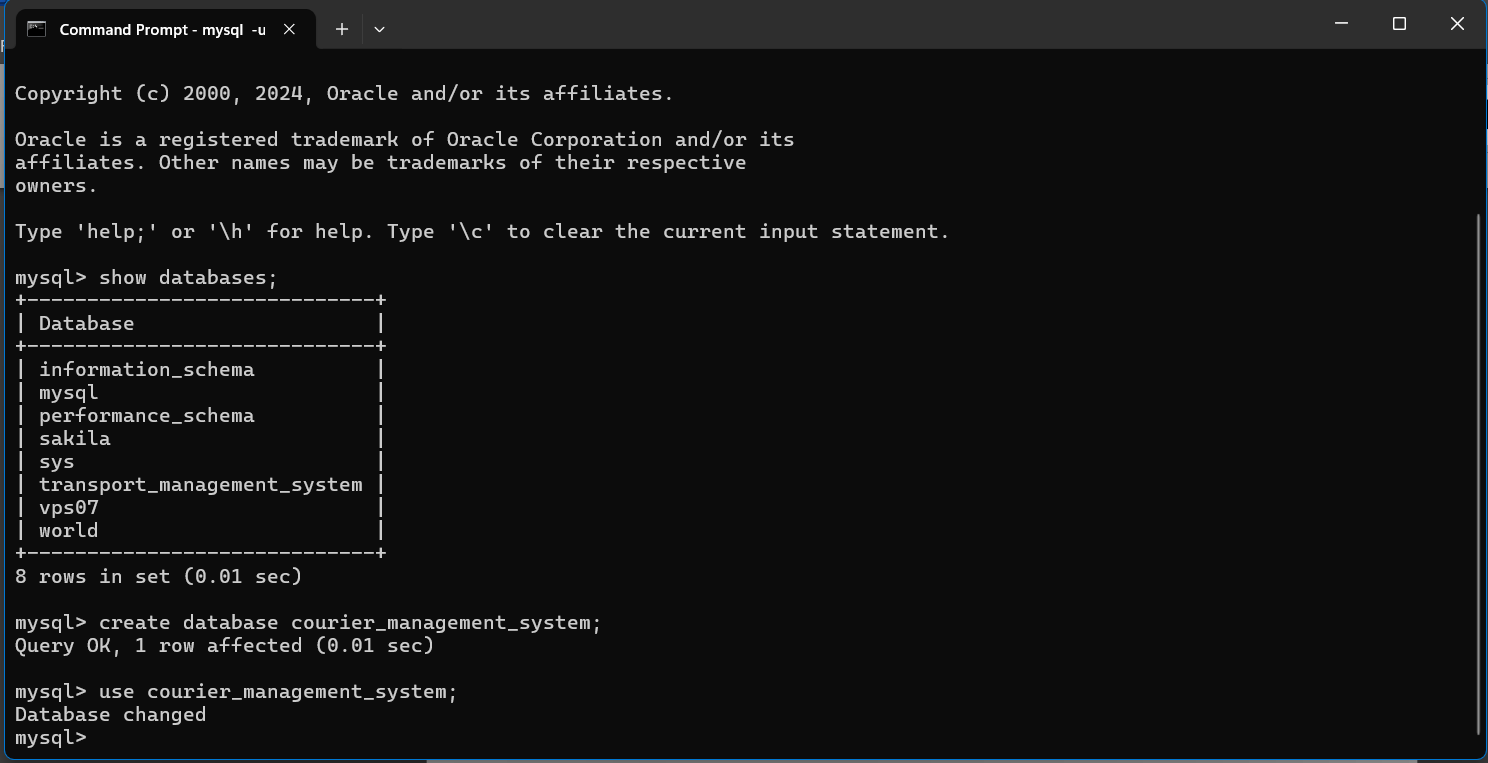
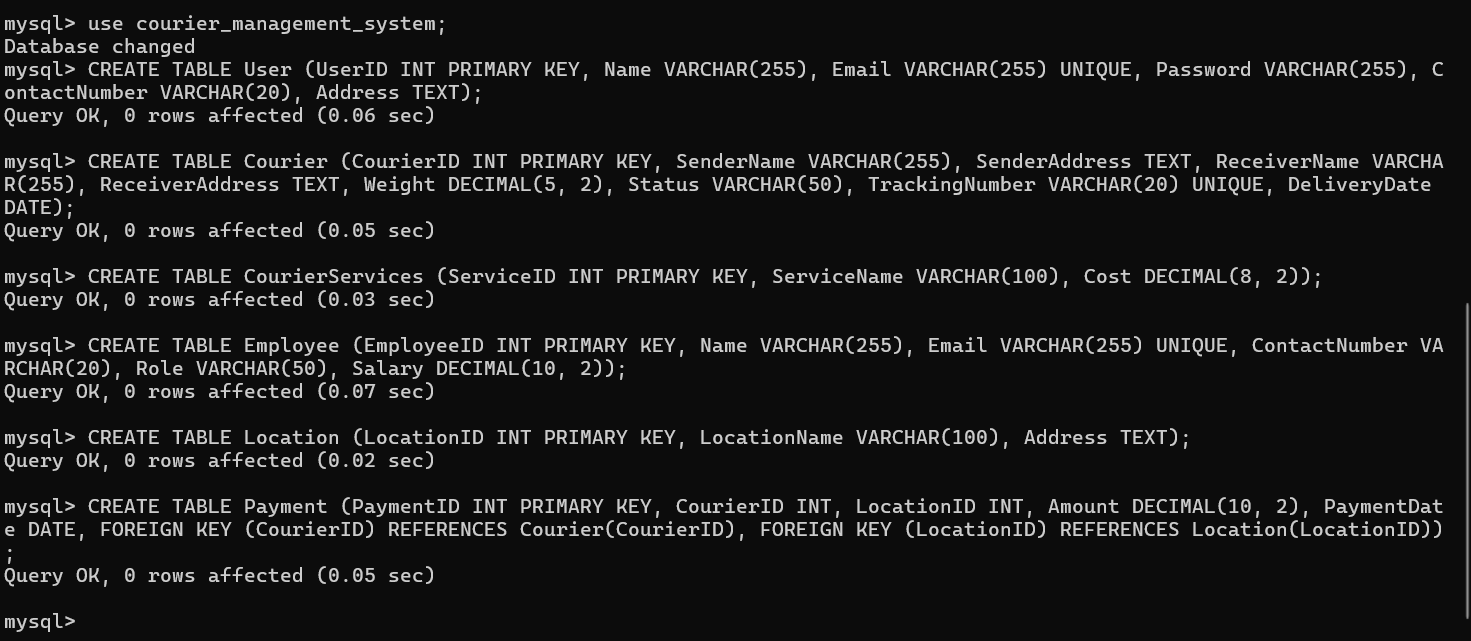
**Assignment No 4: Courier Management System**

**Created Database Courier Management System**



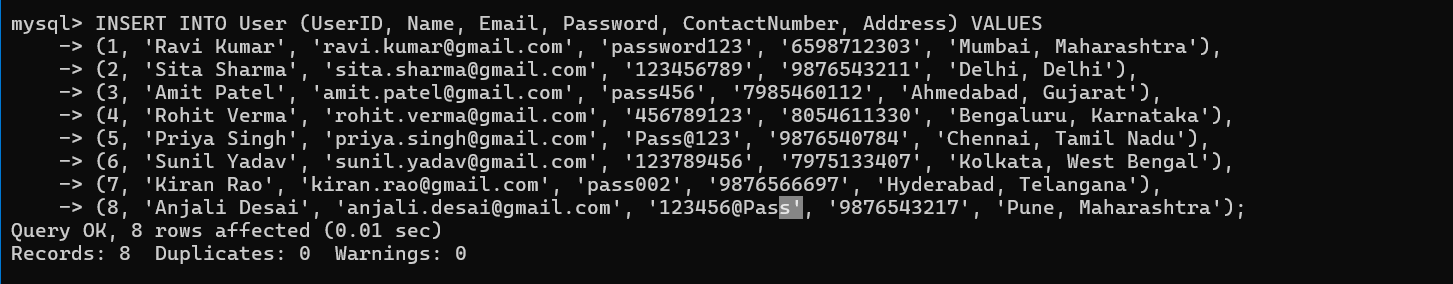
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

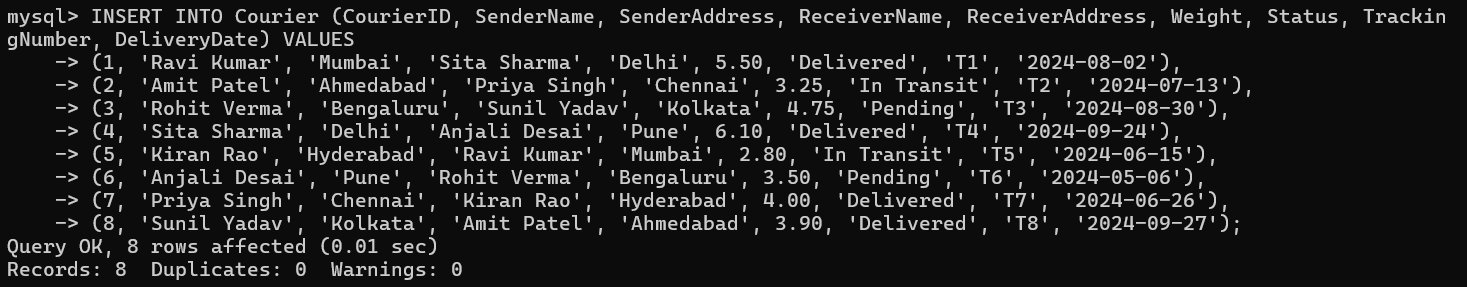
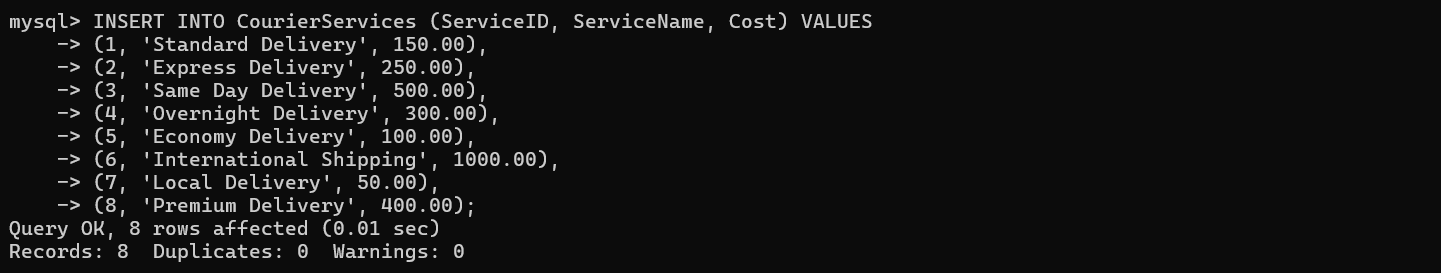
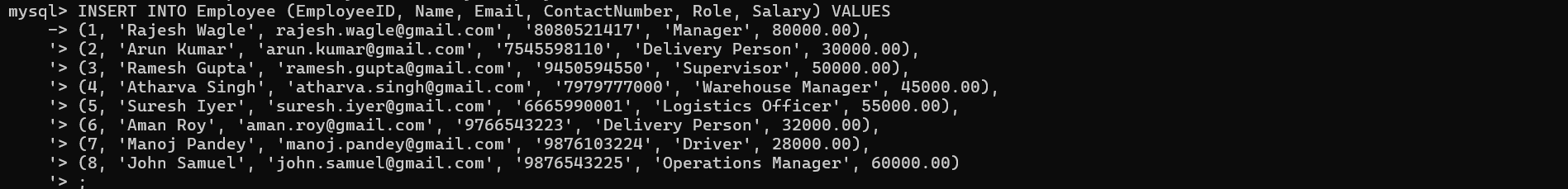
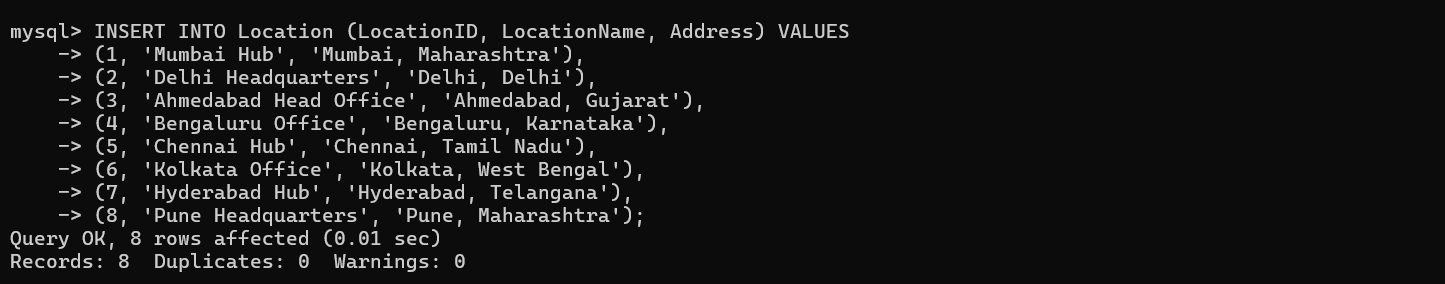
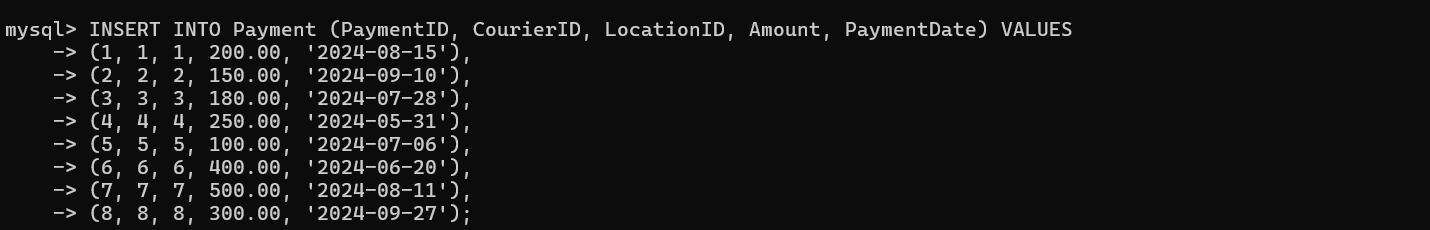
**Task 1: Database Design. Created Tables i.e User Table, Courier Table, Courier Services Table, Employee Table, Location Table, Payment Table**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Inserted values in the tables i.e User Table, Courier Table, Courier Services Table, Employee Table, Location Table, Payment Table**

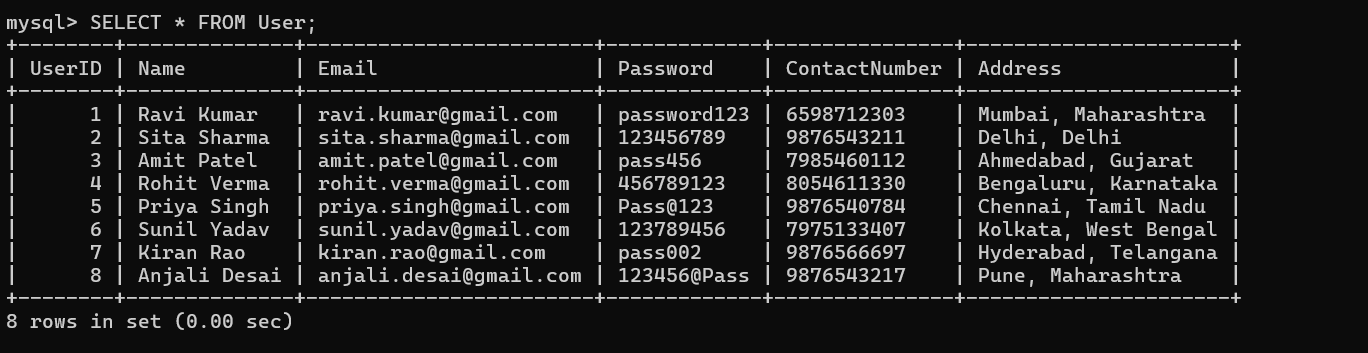
1. **User Table:**

****

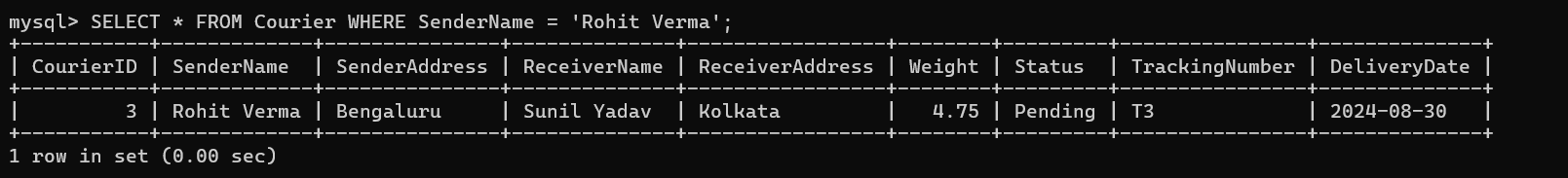
1. **Courier Table:** ****
2. **Courier Services:** ****
3. **Employee Table:** 
4. **Location Table:** ****
5. **Payment Table:** ****

**Task 2**

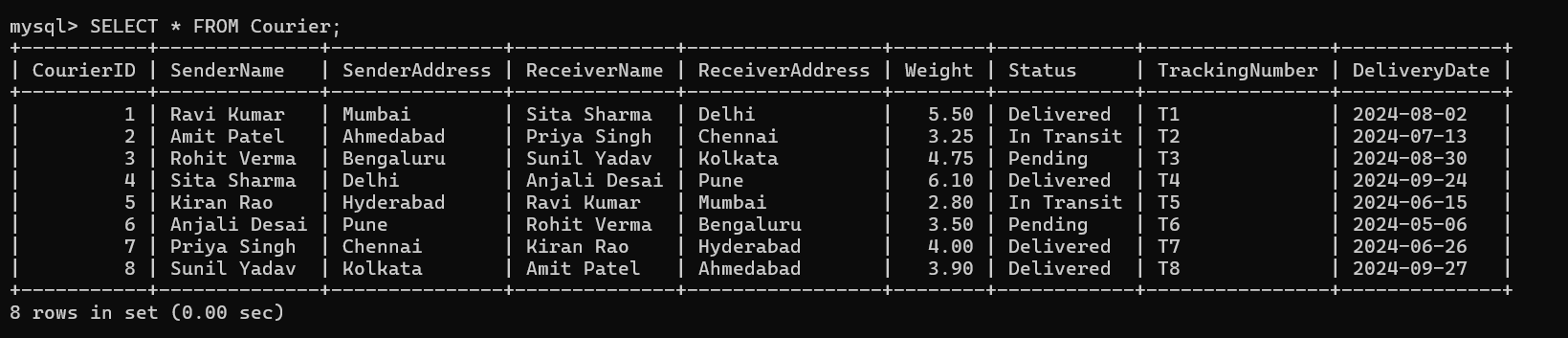
1. **List all the Customers:**

****

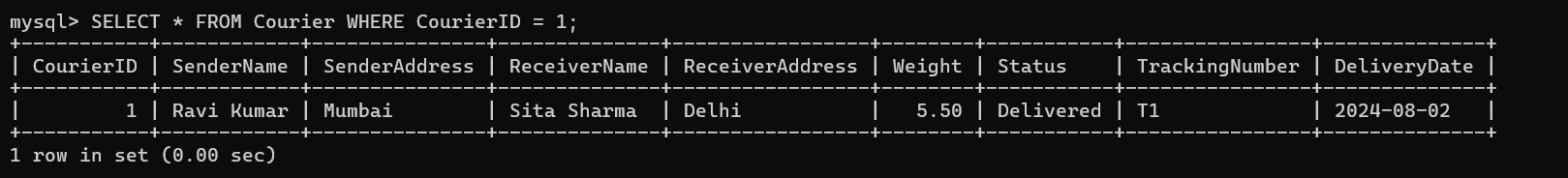
1. **List all orders for a specific customer:**

****

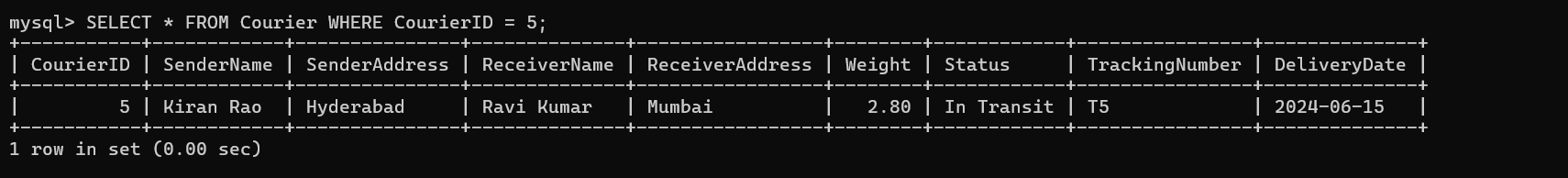
1. **List all couriers:**

****

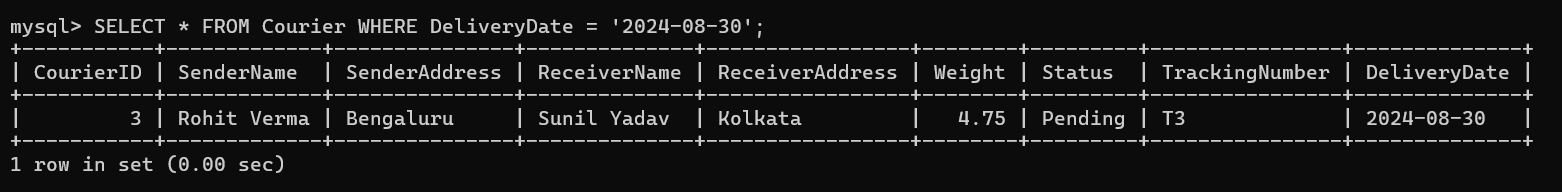
1. **List all the packages of specific order:**

****

1. **List all the deliveries of specific courier:**

****

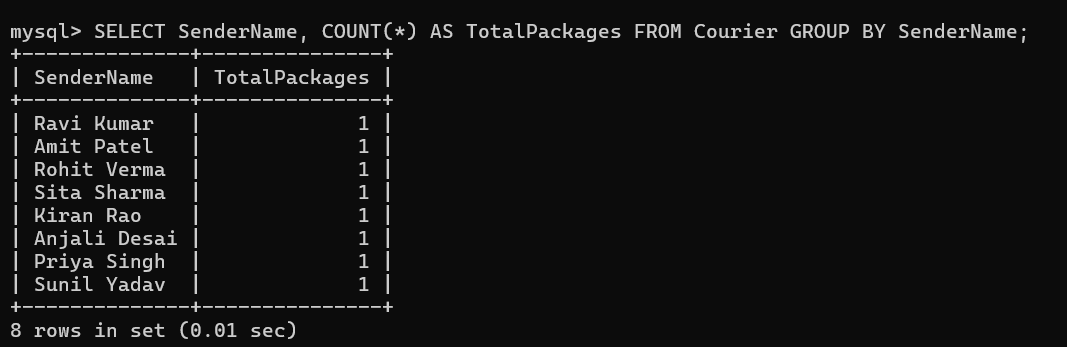
1. **List all packages that are scheduled for delivery today:**

****

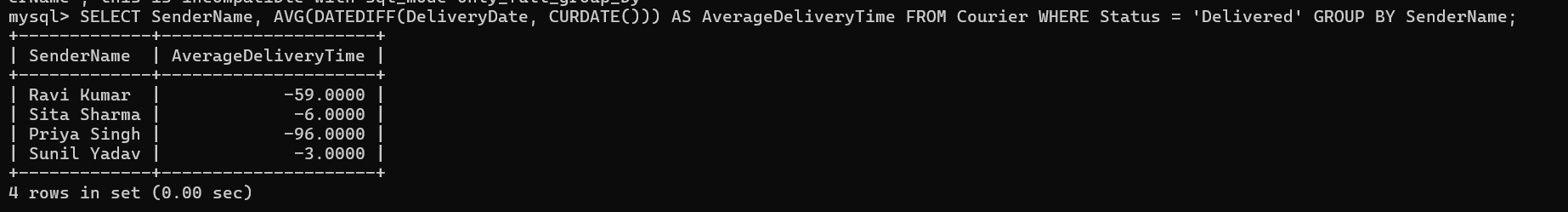
1. **List all packages with a specific status:**

****

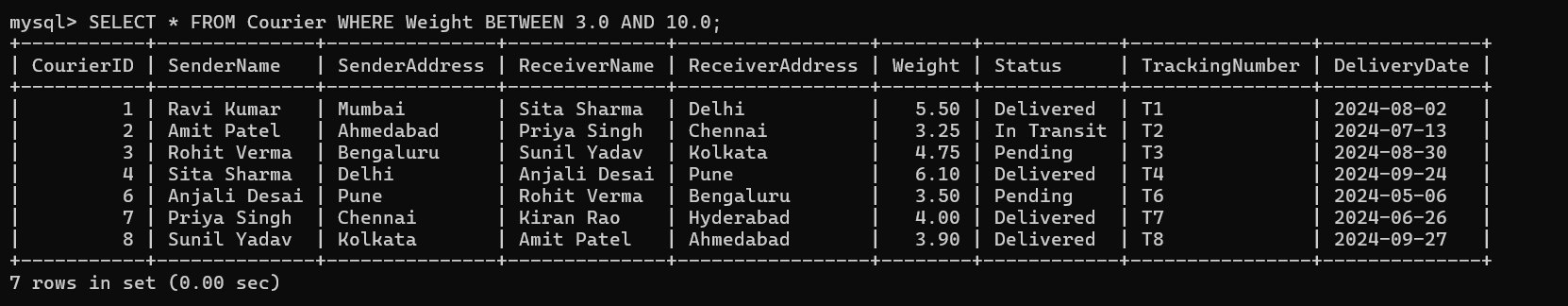
1. **Calculate the total number of packages for each courier:**

****

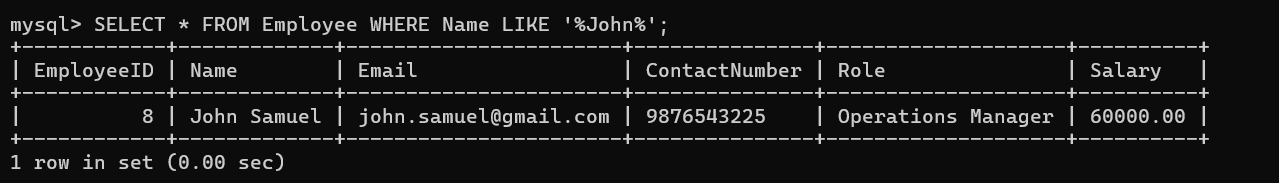
1. **Find the average delivery time for each courier:**

****

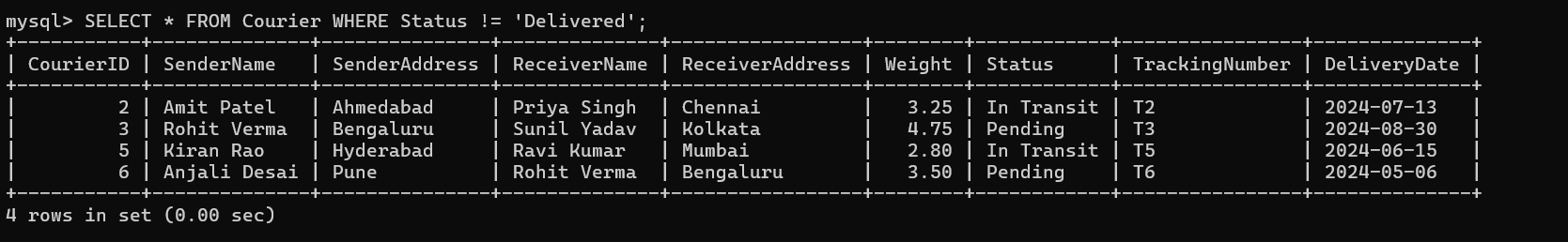
1. **List all packages with a specific weight range:**

****

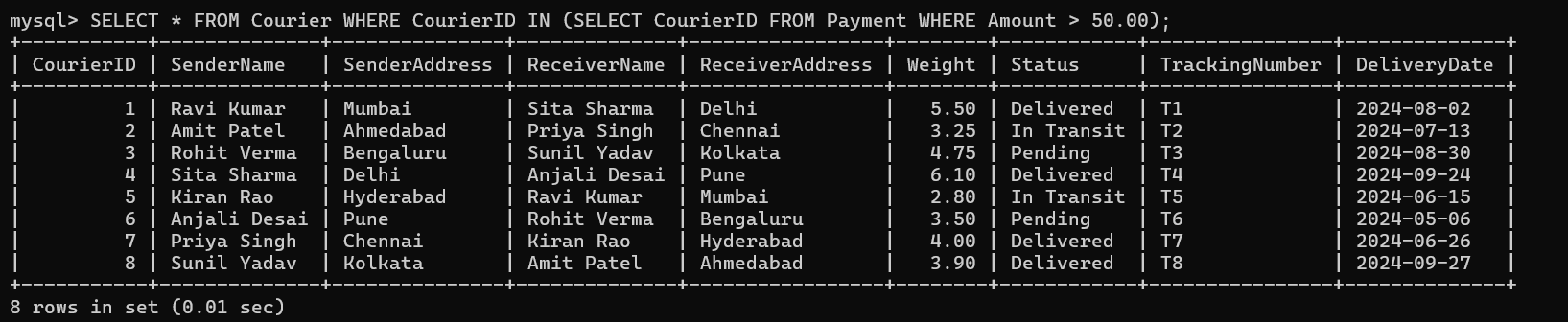
1. **Retrieve employees whose names contain 'John':**

****

1. **List of Undelivered packages:**

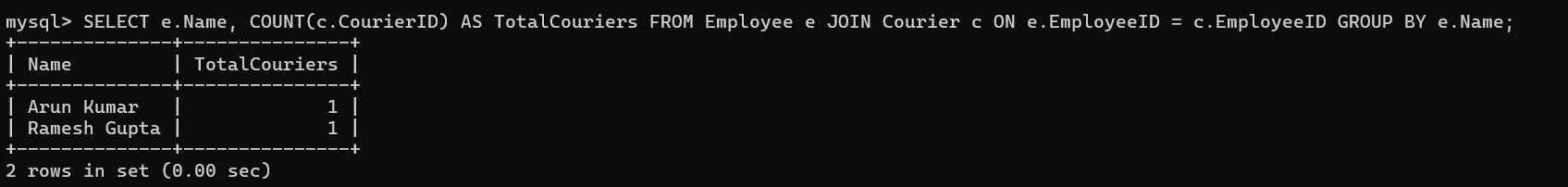
****

1. **Retrieve all courier records with payments greater than $50:**

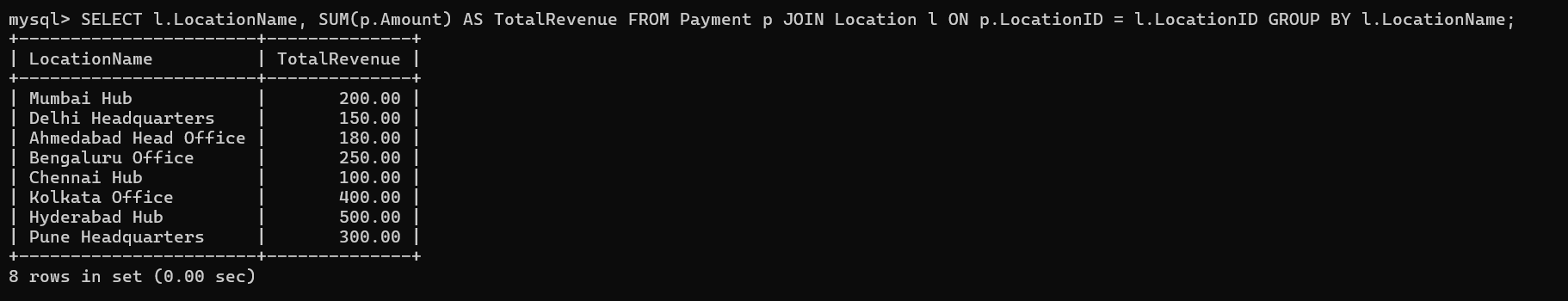
****

**Task 3: GroupBy, Aggregate Functions, Having, Order By, Where:**

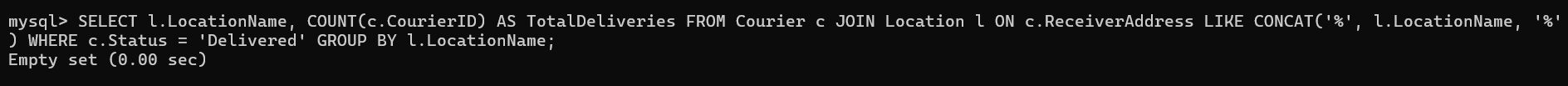
1. **Find the total number of couriers handled by each employee:**

****

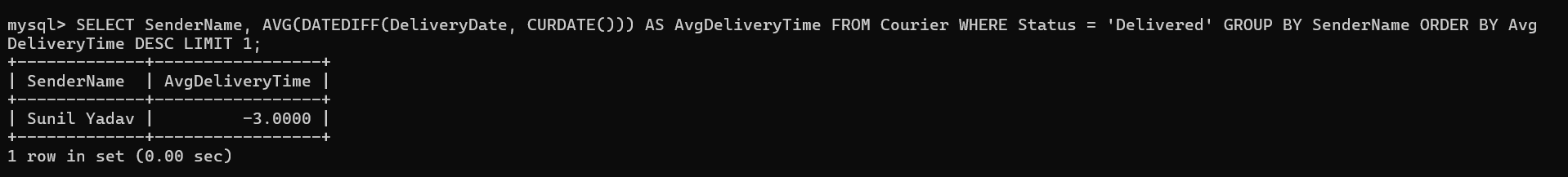
1. **Calculate the total revenue generated by each location:**

****

1. **Find the total number of couriers delivered to each location:**

****

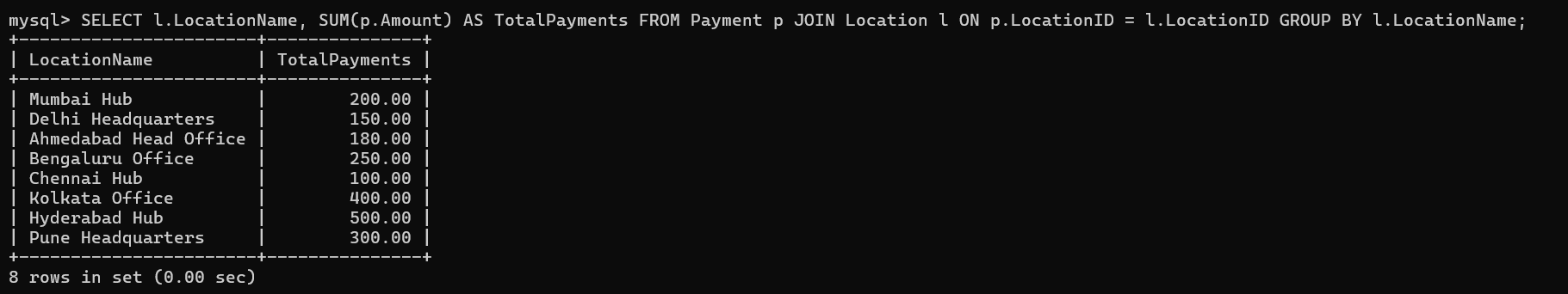
1. **Find the courier with the highest average delivery time:**



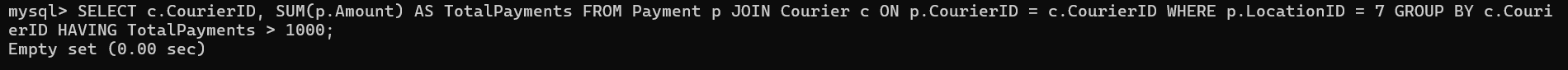
1. **Find Locations with Total Payments Less Than a Certain Amount:**

****

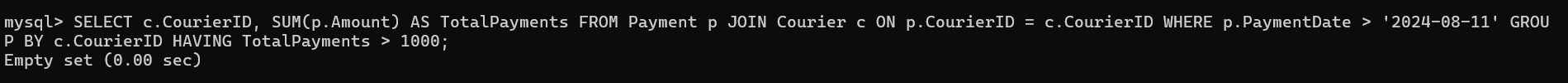
1. **Calculate Total Payments per Location:**

****

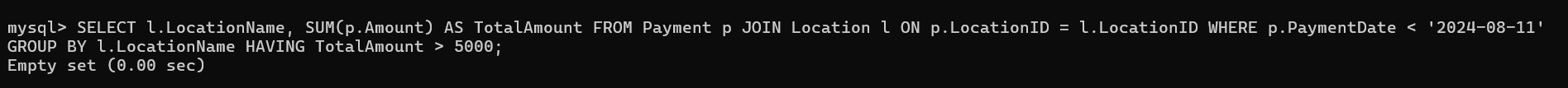
1. **Retrieve couriers who have received payments totaling more than $1000 in a specific location (LocationID = X):**

****

1. **Retrieve couriers who have received payments totaling more than $1000 after a certain date (PaymentDate > 'YYYY-MM-DD'):**

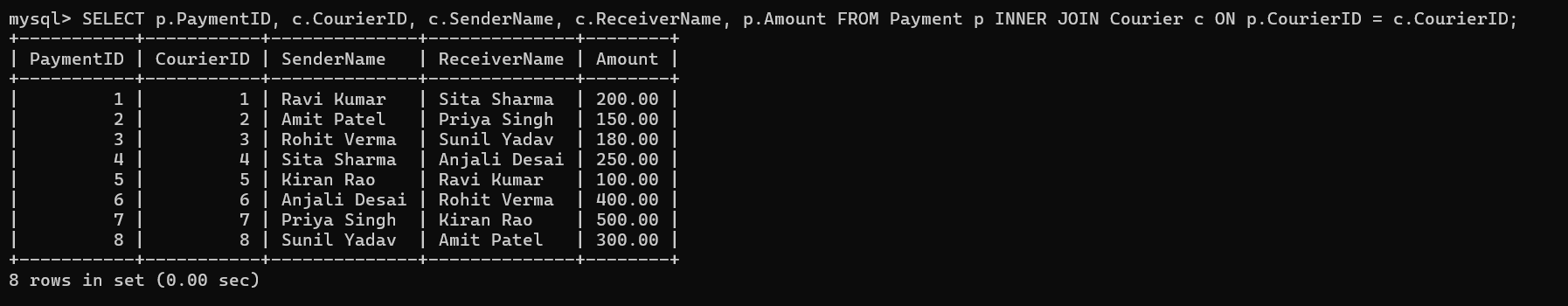
****

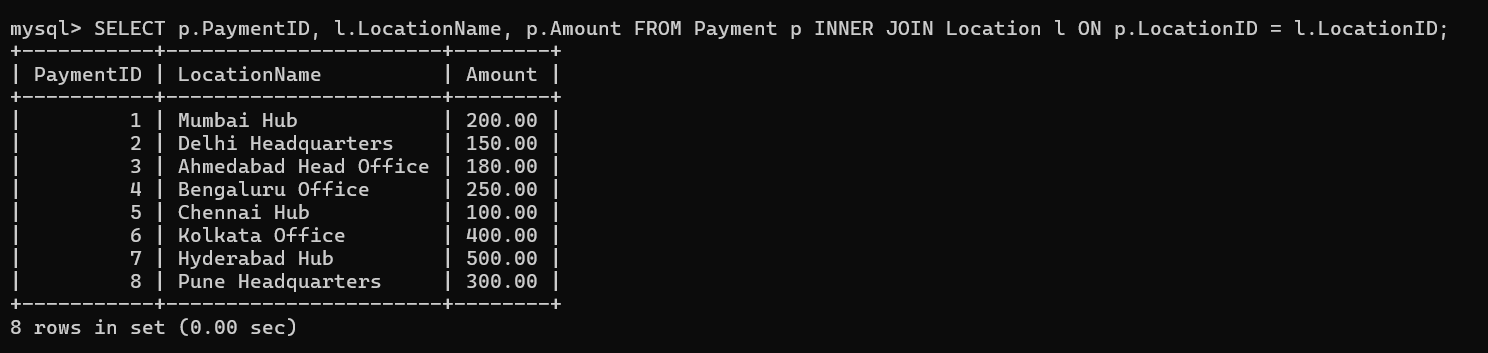
1. **Retrieve locations where the total amount received is more than $5000 before a certain date (PaymentDate < 'YYYY-MM-DD'):**

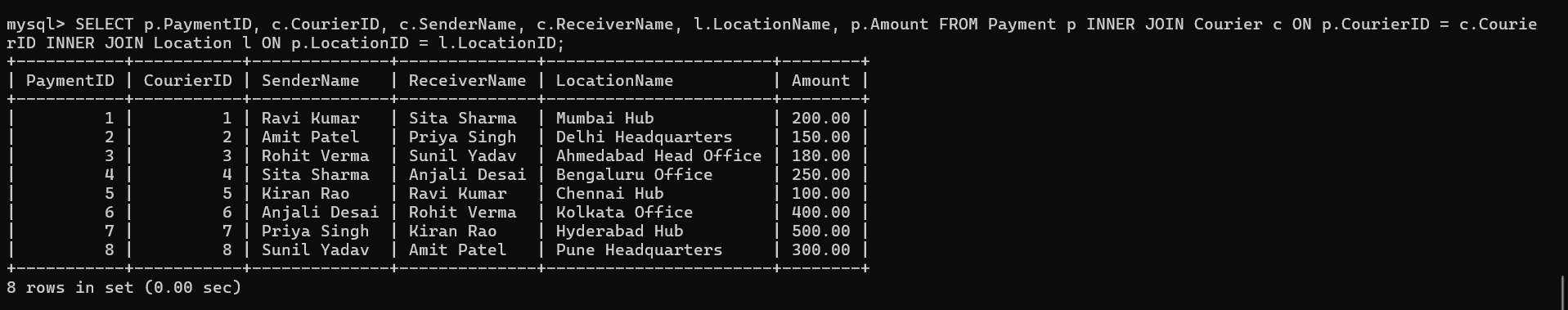
****

**Task 4: Inner Join, Full Outer Join, Cross Join, Left Outer Join, Right Outer Join:**

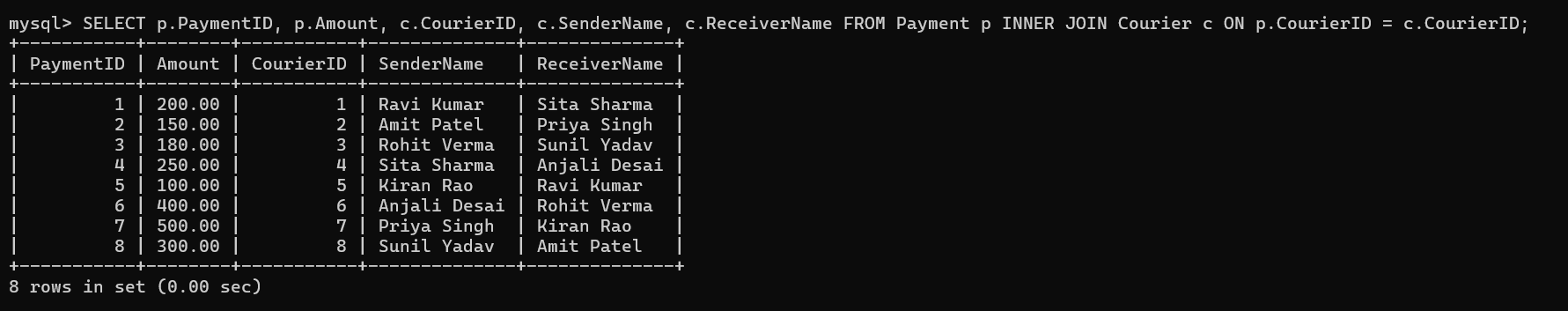
1. **Retrieve Payments with Courier Information:**

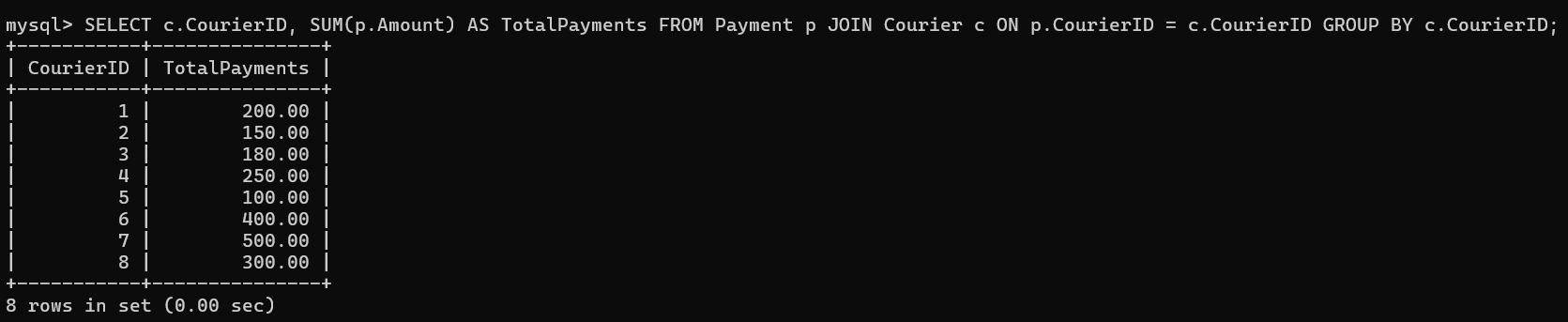
****

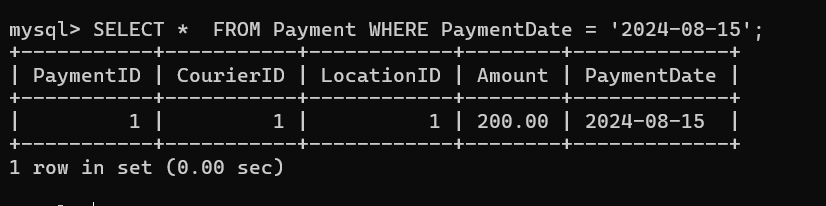
1. **Retrieve Payments with Location Information:** ****
2. **Retrieve Payments with Courier and Location Information:**

****

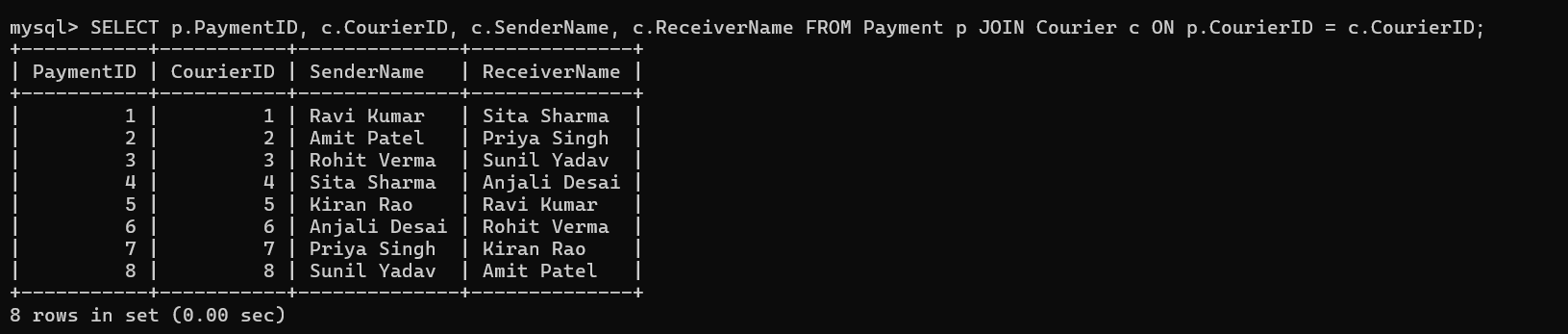
1. **List all payments with courier details:**

****

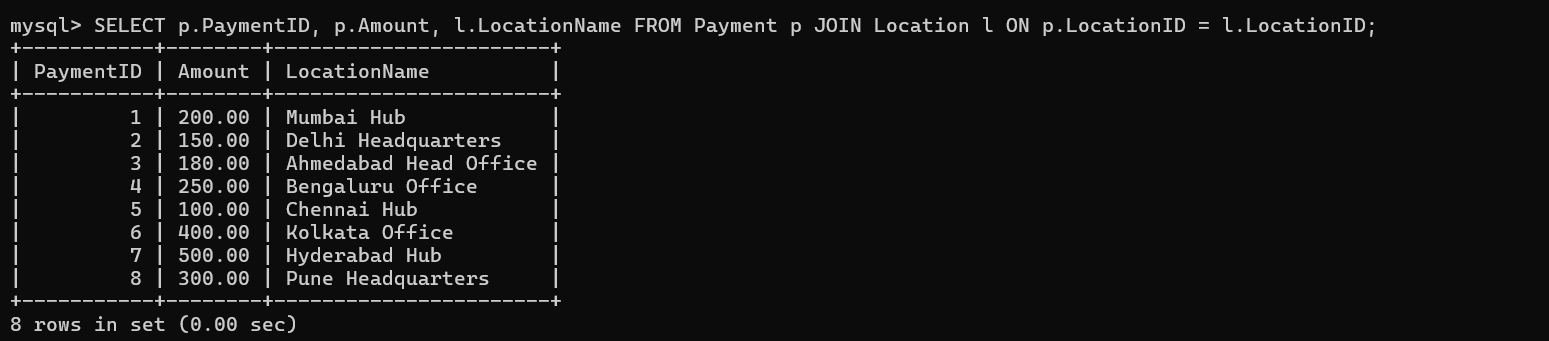
1. **Total payments received for each courier:** ****
2. **List payments made on a specific date:**

****

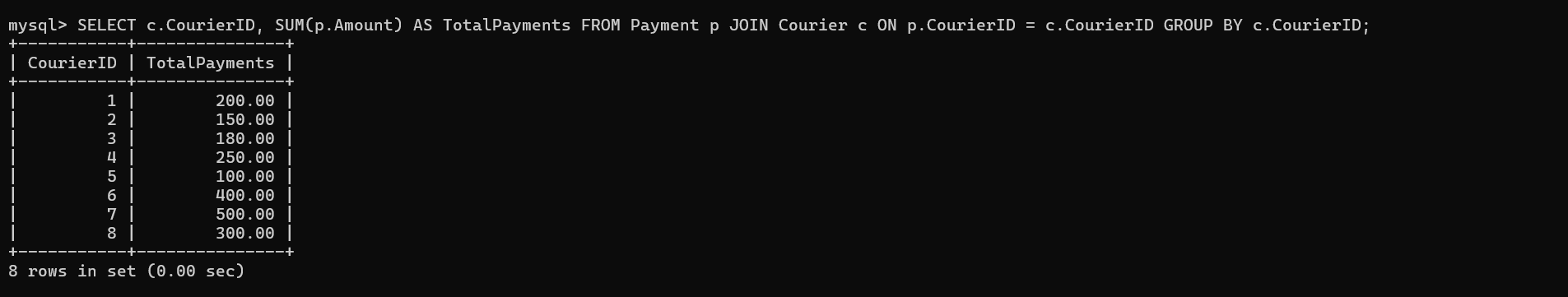
1. **Get Courier Information for Each Payment:**

****

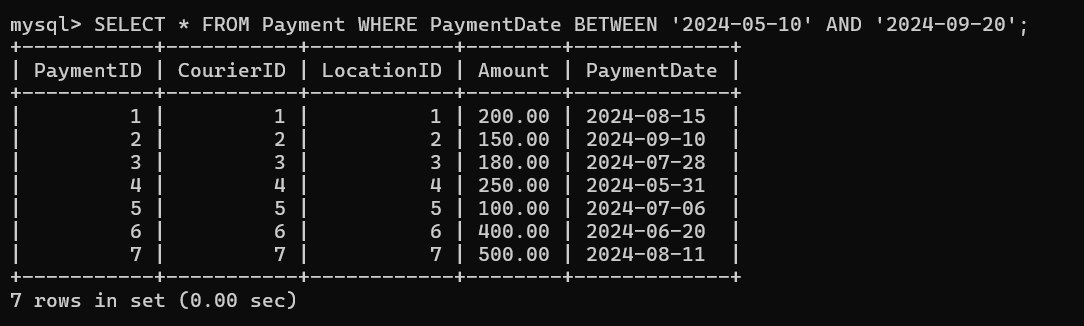
1. **Get Payment Details with Location:**

****

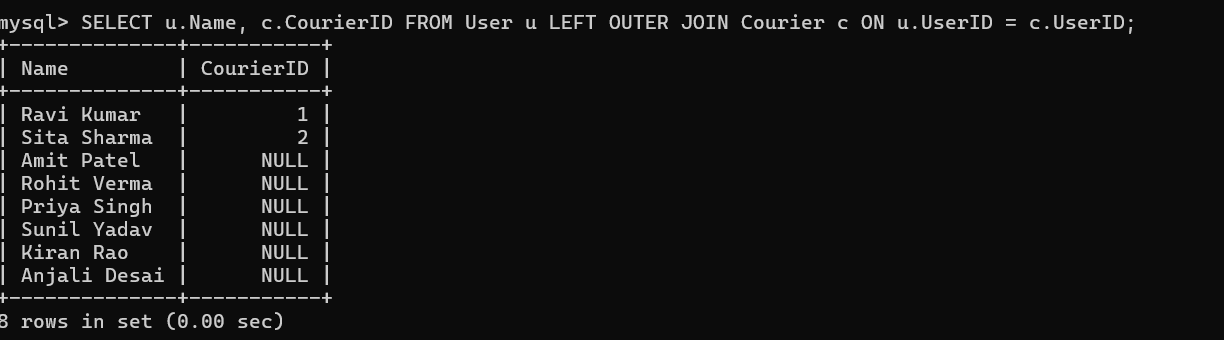
1. **Calculating Total Payments for Each Courier:**

****

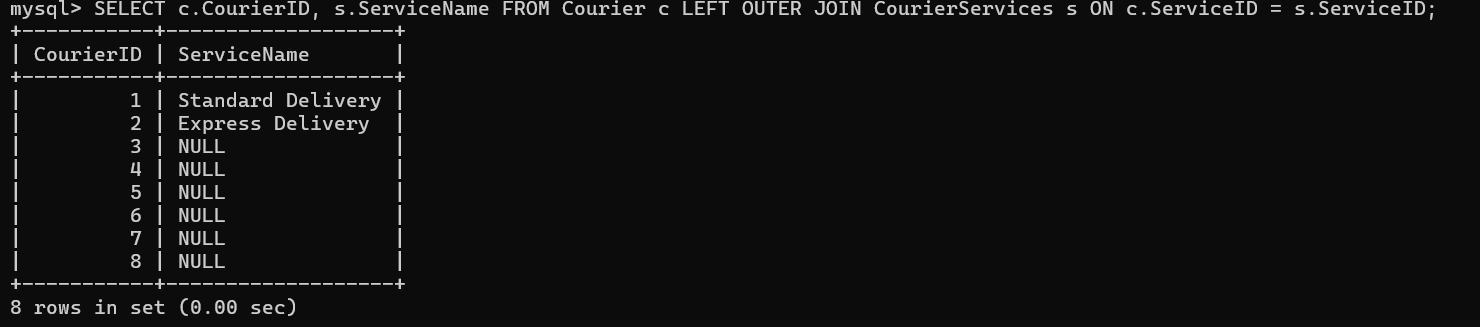
1. **List Payments Within a Date Range:**

****

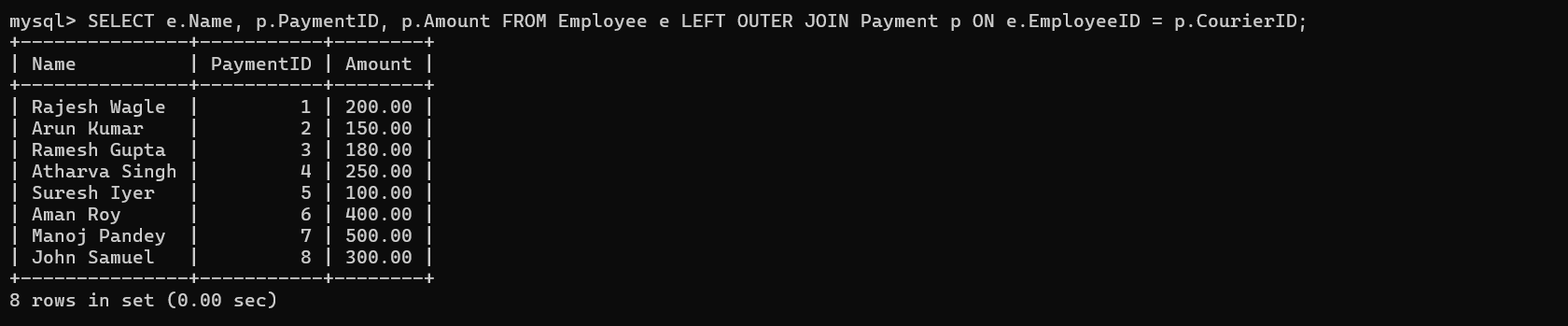
1. **Retrieve a list of all users and their corresponding courier records, including cases where there are no matches on either side:**

****

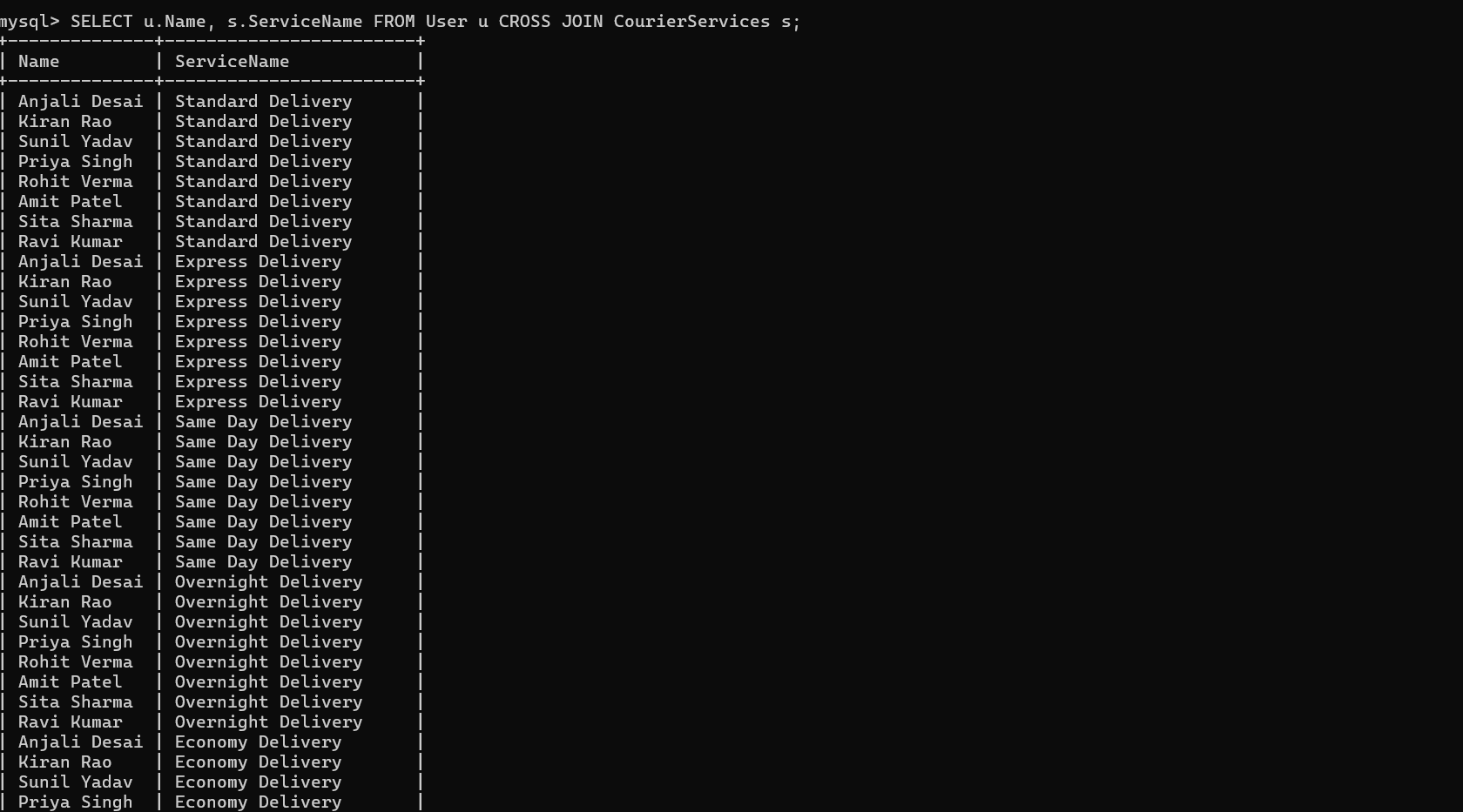
1. **Retrieve a list of all couriers and their corresponding services, including cases where there are no matches on either side:**

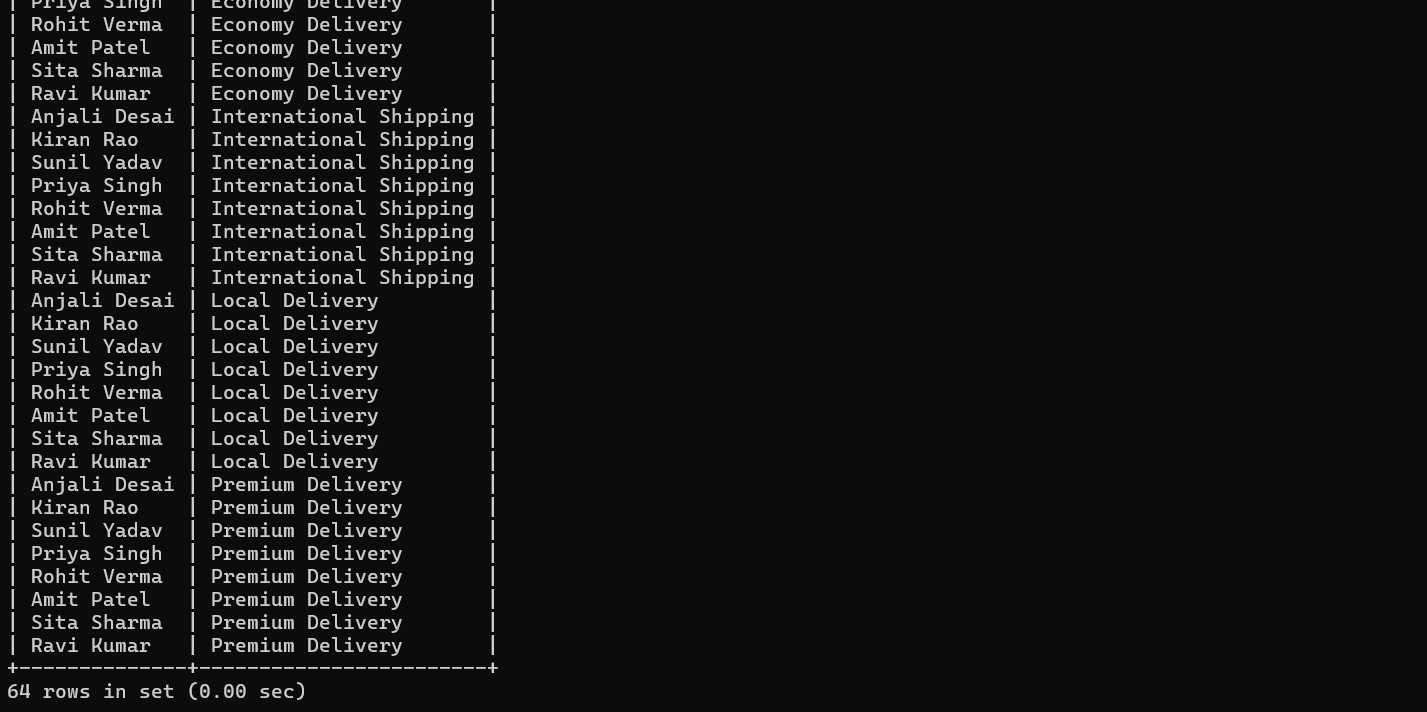
****

1. **Retrieve a list of all employees and their corresponding payments, including cases where there are no matches on either side:**

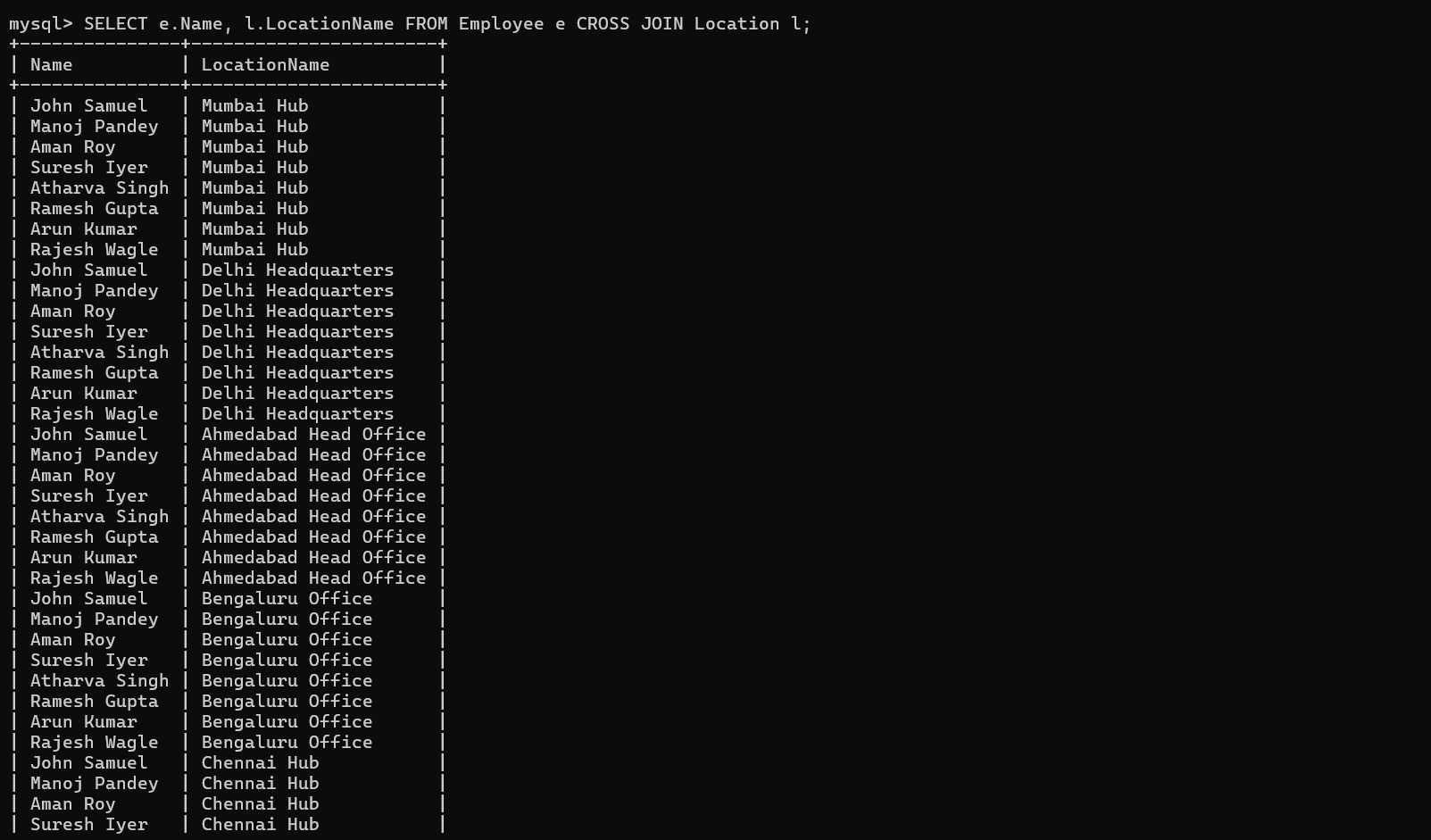
****

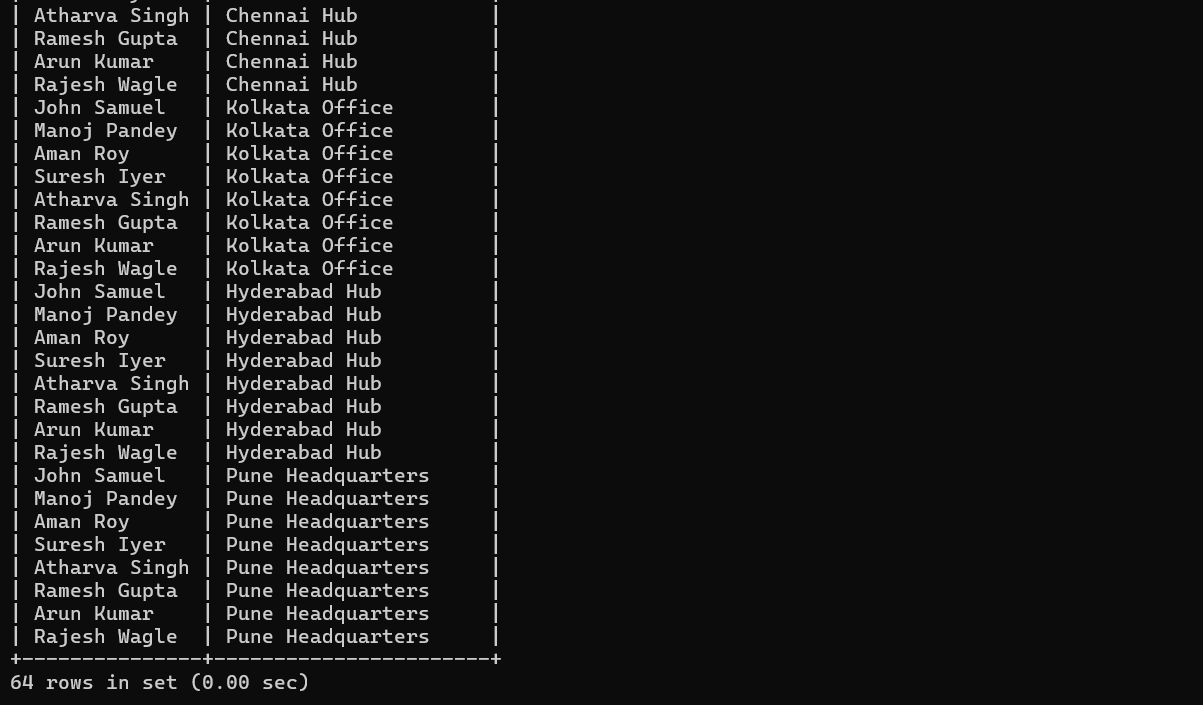
1. **List all users and all courier services, showing all possible combinations:**

****

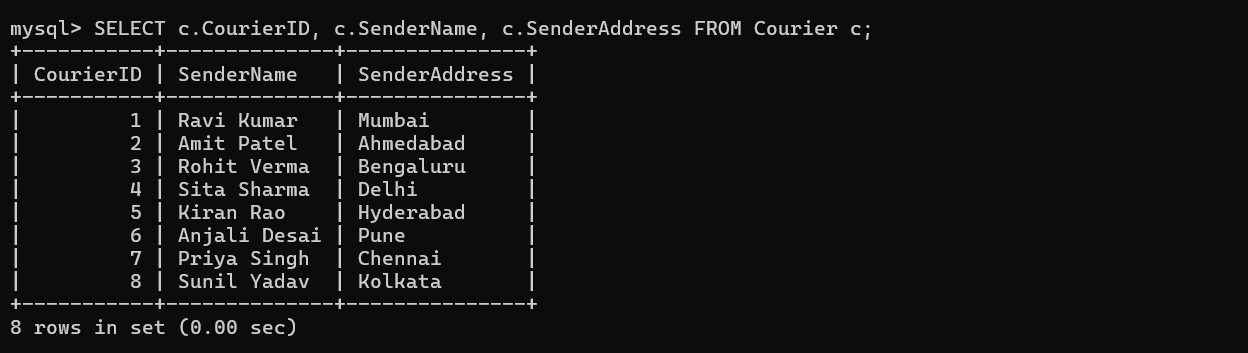
****

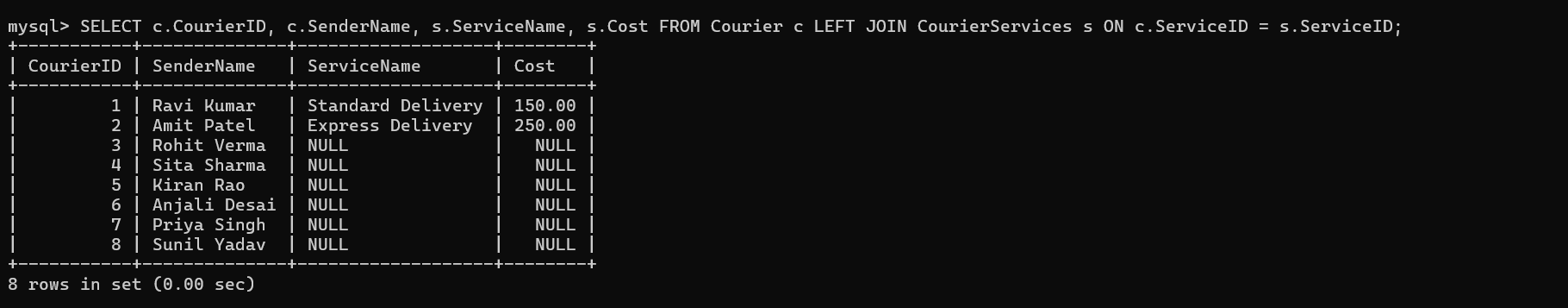
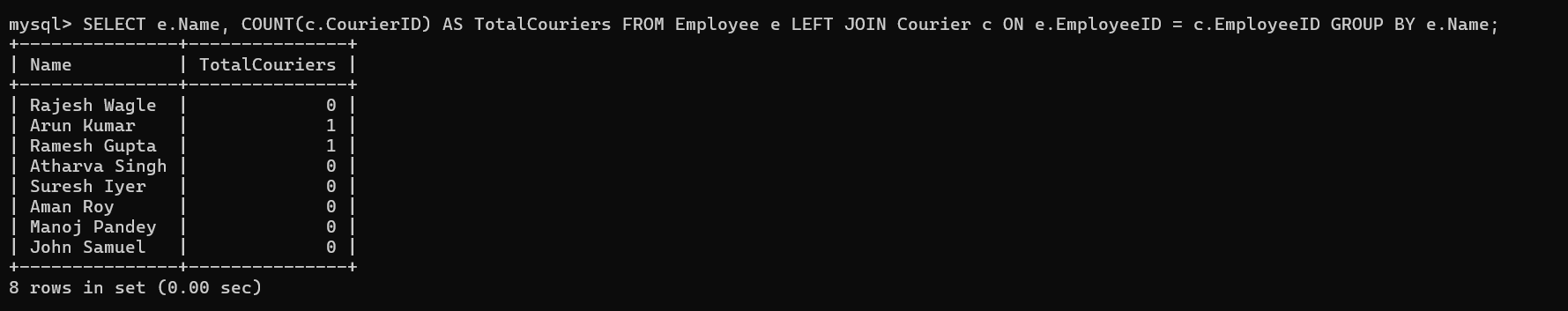
1. **List all employees and all locations, showing all possible combinations:**

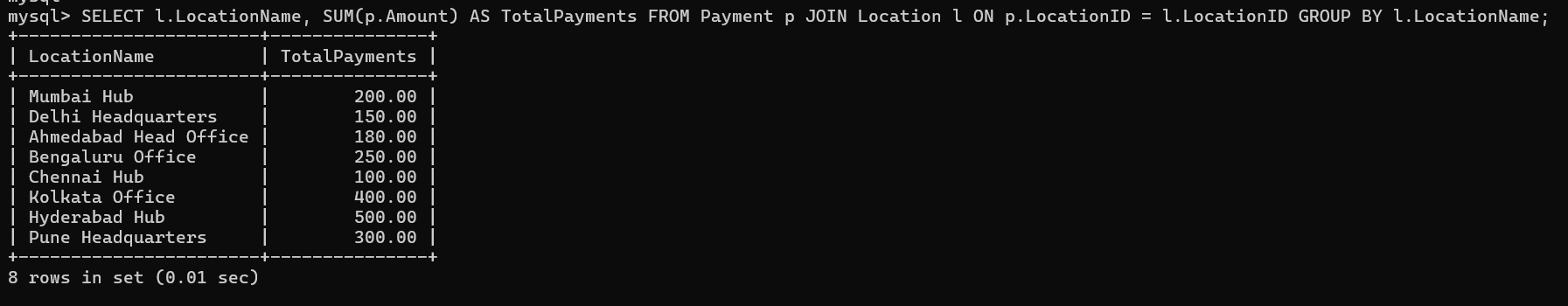
****

****

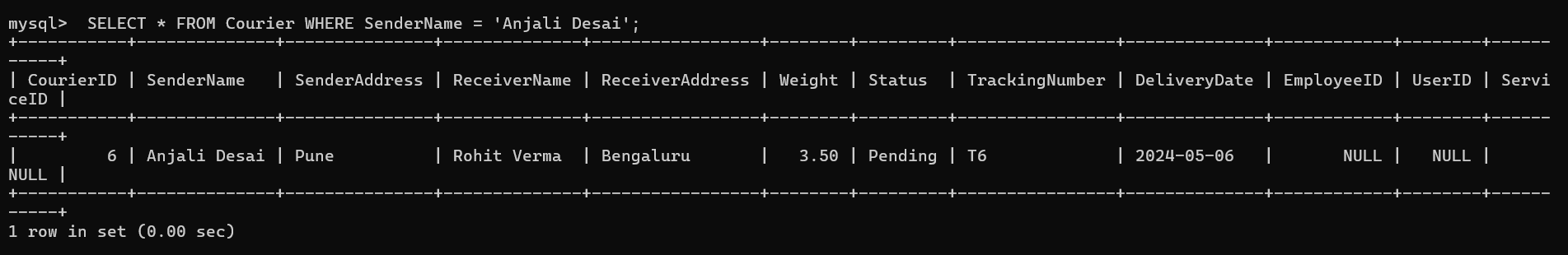
1. **Retrieve a list of couriers and their corresponding sender information (if available):**

****

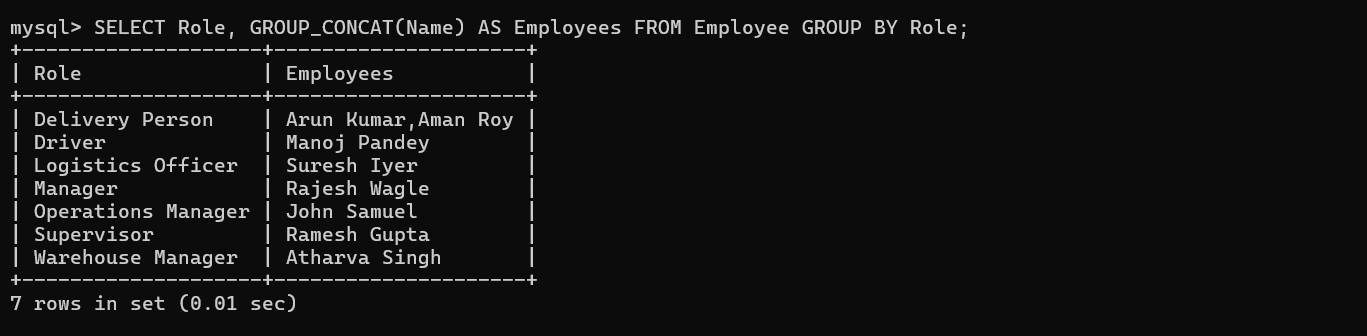
1. **Retrieve a list of couriers along with the courier service details (if available):** ****
2. **Retrieve a list of employees and the number of couriers assigned to each employee:** ****
3. **Retrieve a list of locations and the total payment amount received at each location:**

****

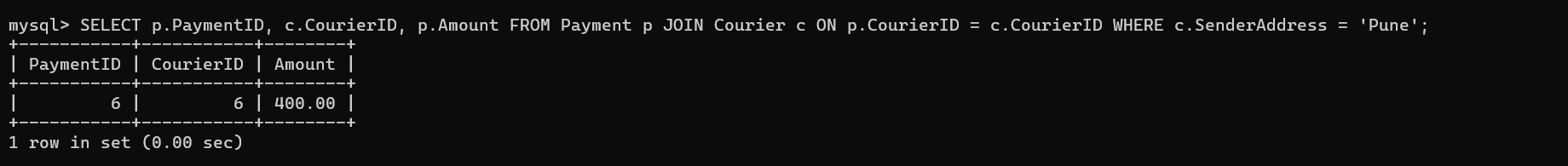
1. **Retrieve all couriers sent by the same sender (based on SenderName):**

****

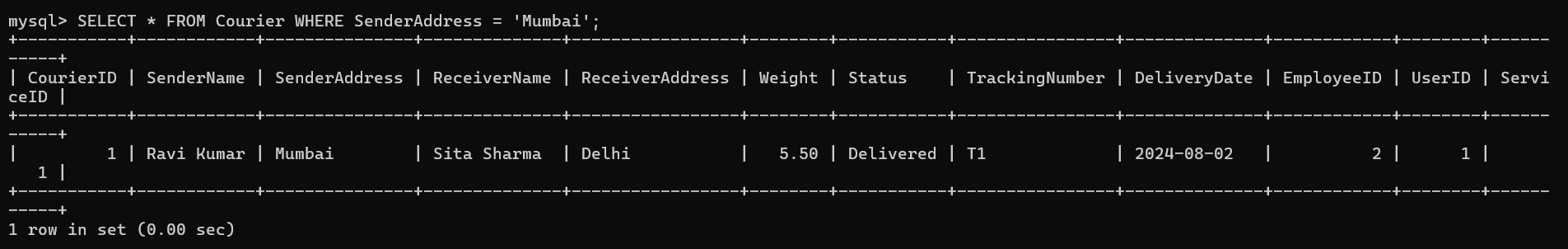
1. **List all employees who share the same role:**

****

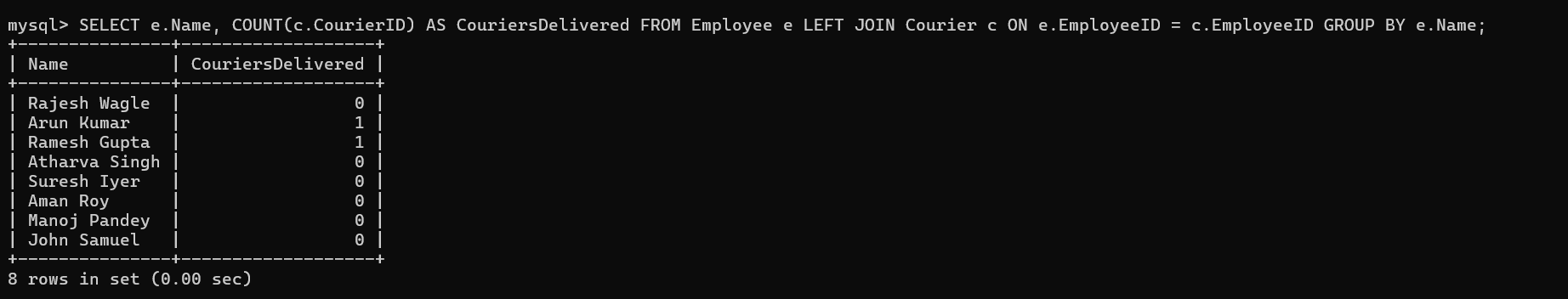
1. **Retrieve all payments made for couriers sent from the same location:**

****

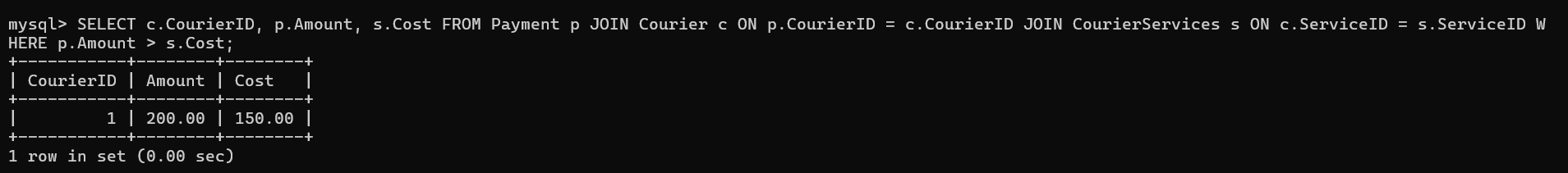
1. **Retrieve all couriers sent from the same location (based on SenderAddress):**

****

1. **List employees and the number of couriers they have delivered:**

****

1. **Find couriers that were paid an amount greater than the cost of their respective courier services:**

****