



# Bus Transportation Company Database System

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# INTRODUCTION

In the dynamic world of transportation, efficient management of bus operations is crucial. This project aims to develop a comprehensive database system that streamlines the operations of a bus transportation company.

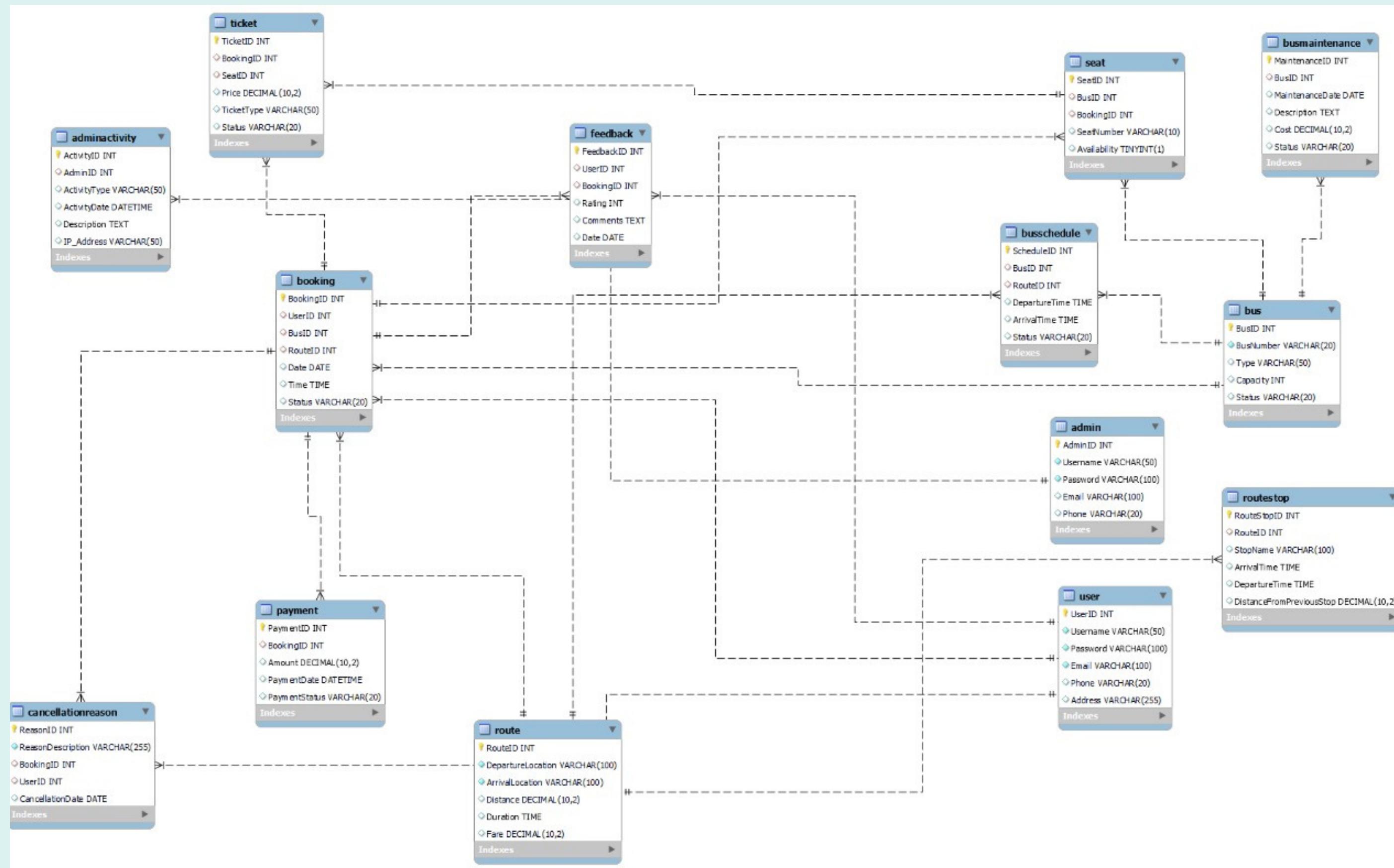
The key objectives are:

- Facilitate users in searching for available buses, booking seats conveniently, making secure payments, and providing valuable feedback on their travel experiences.
- Empower administrators with powerful tools to efficiently manage buses, routes, bookings, payments, user feedback, and other crucial aspects of operations.
- Create a robust and scalable system that optimizes the management of bus operations while providing a seamless and enjoyable experience for both users and administrators.

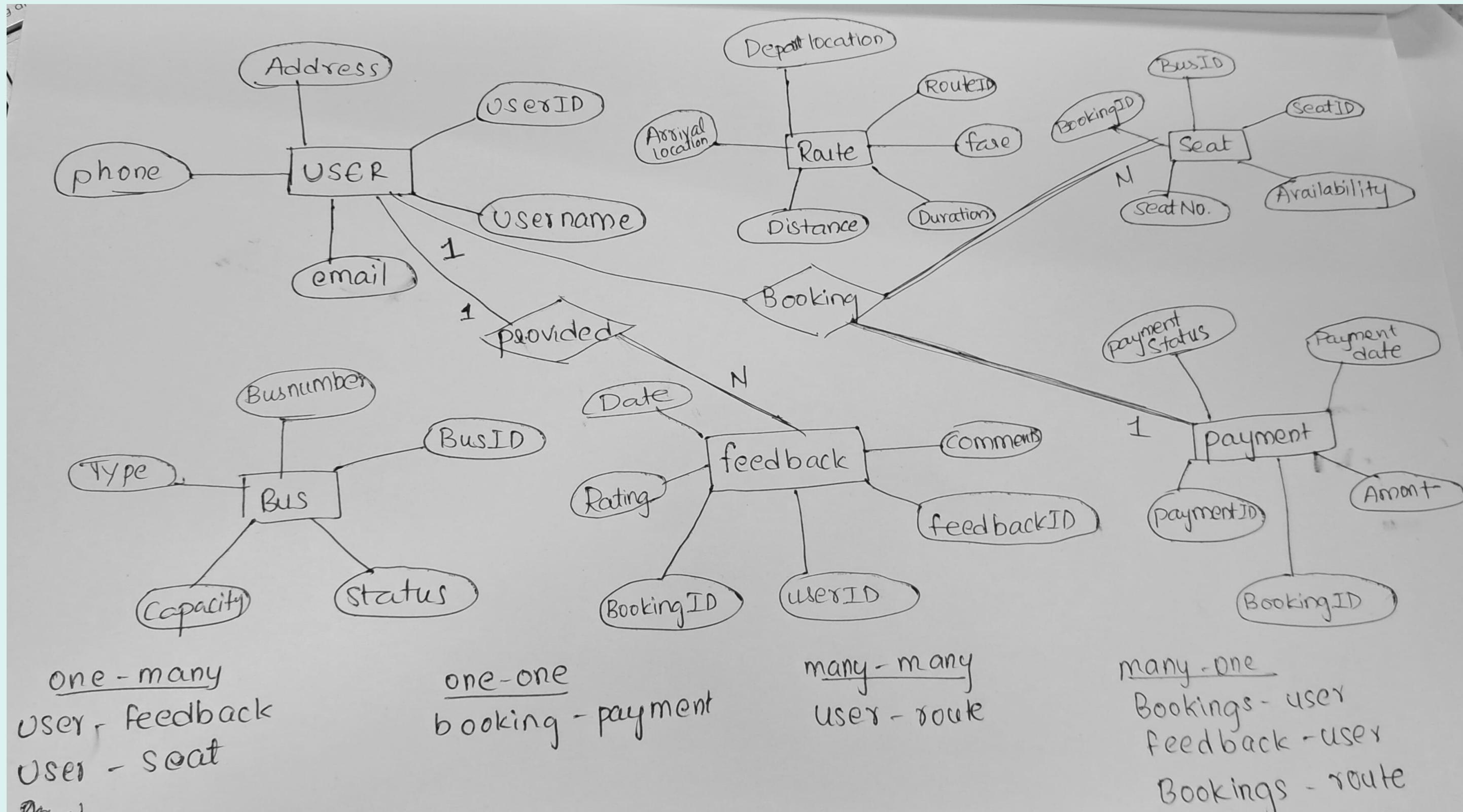
# Entities

	<b>User</b>		<b>Admin</b>		<b>RouteStop</b>
	<b>Bus</b>		<b>Payment</b>		<b>Driver</b>
	<b>Route</b>		<b>BusSchedule</b>		<b>BusMaintenance</b>
	<b>Seat</b>		<b>Promotion</b>		<b>AdminActivity</b>
	<b>Feedback</b>		<b>Ticket</b>		

# Entity Relation Diagram



# Entity Relational Model



# Database Table

abhi_bus	
Tables	
▶	admin
▶	adminactivity
▶	booking
▶	bus
▶	busmaintenance
▶	busschedule
▶	cancellationreason
▶	driver
▶	feedback
▶	payment
▶	promotion
▶	route
▶	routestop
▶	seat
▶	ticket
▶	user
▶	Views

# Performing Queries

**SELECT \* FROM Bus WHERE Status = 'Active';**

BusID	BusNumber	Type	Capacity	Status
1	BUS001	AC	50	Active
2	BUS002	Non-AC	40	Active
4	BUS004	AC	45	Active
5	BUS005	Non-AC	35	Active
7	BUS007	AC	50	Active



```
SELECT DISTINCT pp.LastName  
FROM Person.Person pp JOIN  
ON e.BusinessEntityID = pp.  
(SELECT SalesPersonID  
FROM Sales.SalesOrderHeader  
WHERE SalesOrderID IN  
SELECT SalesOrderID  
Sales.SalesOrderHeader  
ProductID IN
```

# Thank You