



**AMERICAN
INTERNATIONAL
UNIVERSITY-
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PROJECT TITLE: BUS TICKET MANAGEMENT SYSTEM

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COURSE: INTRODUCTION TO DATABASE

SECTION: F

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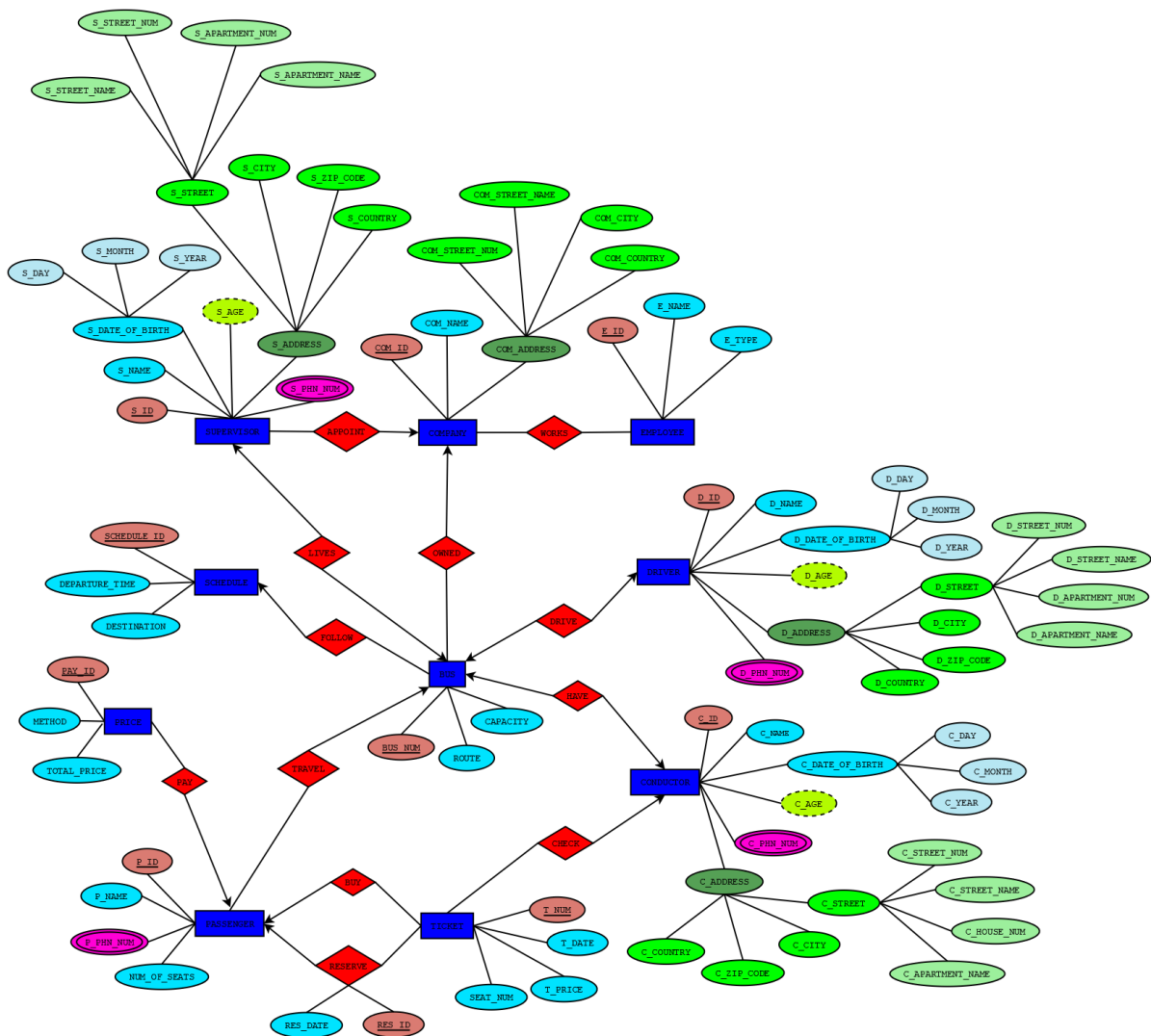
Introduction:

The Bus Ticket Management System is a software application designed to manage the ticketing process for any bus ticket management company. The system is designed to automate the process of ticket management. It's developed using a database management system to store and manage data. The system generates reports on daily sales, revenue, and passenger counts for each bus route and helps the company to make informed decisions on their operations. The system is user-friendly and easy to navigate. It's designed to be accessible to both customers and administrators with different levels of technical expertise. This system is a valuable tool for any bus ticket management company looking to streamline their ticketing process, improve customer experience and increase operational efficiency.

Scenario Description:

In a bus ticket management system, A driver drives a bus. A bus is driven by exactly one driver. The driver is identified by a driver ID. The system also stores the driver's name, date of birth, age, address, and phone number. A driver's address is composed of house number, street, city, zip code, country and also the date of birth is composed of day, month, and year. A driver's street is composed of the street number, street name, apartment number, and apartment name. There may be multiple mobile numbers of a driver. A contractor works on a bus. A bus is identified by bus number and the system also stores bus capacity and route. A bus can have only one conductor. A conductor is identified by conductor ID. The system also stores the conductor's name, address, date of birth, and age. A conductor's address is composed of house number, street number, street name, city, zip code, and country and also the date of birth is composed of day, month, and year. A conductor's street is composed of the street number, street name, apartment number, and apartment name. There may be multiple mobile numbers of a conductor. A conductor can check many tickets and a ticket checked by one contractor. A ticket is identified by ticket number. The system also stores the ticket's price, seat number, and date. A passenger can buy and reserve many tickets. One ticket can be reserved for one passenger. For the ticket issue, the reservation date is stored and identified by reservation ID. A ticket can be purchased by one passenger. A passenger is identified by passenger ID. The system also stores the passenger's name, number of seats, and passenger phone number. There may be multiple mobile numbers of a passenger. A passenger can pay for one ticket and many tickets can be paid for by one passenger. It's identified by payment id and the system also stores payment method and total ticket price. A passenger can travel in only one bus, but a bus carries many passengers. A bus follows a schedule, but a schedule has many buses. A schedule is identified by schedule ID. The system stores the departure time and destination. A bus can be owned by only one bus company. A bus company is identified by company ID. And the system also stores the company name and location. A bus company has many buses. A bus has a supervisor. A supervisor lives on one bus. The supervisor is identified by a supervisor ID. The system also stores the supervisor's name, date of birth, age, address, and phone number. A supervisor's address is composed of house number, street, city, zip code, and country; the date of birth is composed of day, month, and year. A supervisor's street is composed of the street number, street name, apartment number, and apartment name. A company's address is composed of street number, street name, city, and country. There may be multiple mobile numbers of a supervisor. A supervisor is appointed in a company. A company appoints many supervisors. A bus company can have many employees and an employee is identified by employee ID. The system also stores employee names and types. An employee works in one company.

ER Diagram:



Normalization:

Drive

UNF:

DRIVE (BUS_NUM, ROUTE, CAPACITY, D_ID, D_NAME, D_DAY, D_MONTH, D_YEAR, D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME, D_CITY, D_ZIP_CODE, D_COUNTRY, D_PHN_NUM)

1NF:

D_PHN_NUM is a multivalued attribute.

BUS_NUM, ROUTE, CAPACITY, D_ID, D_NAME, D_DAY, D_MONTH, D_YEAR, D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME, D_CITY, D_ZIP_CODE, D_COUNTRY, D_PHN_NUM

2NF:

1. BUS_NUM, ROUTE, CAPACITY
2. D_ID, D_NAME, D_DAY, D_MONTH, D_YEAR, D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME, D_CITY, D_ZIP_CODE, D_COUNTRY, D_PHN_NUM

3NF:

1. BUS_NUM, ROUTE, CAPACITY
2. D_ID, D_NAME, D_PHN_NUM
3. D_DAY, D_MONTH, D_YEAR
4. D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME, D_CITY, D_ZIP_CODE, D_COUNTRY

Table Creation:

1. BUS_NUM, ROUTE, CAPACITY
2. D_ID, D_NAME, D_PHN_NUM, **BUS_NUM**, **D_DOB_ID**, **D_ADDRESS_ID**
3. D_DOB_ID, D_DAY, D_MONTH, D_YEAR
4. D_ADDRESS_ID, D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME, D_CITY, D_ZIP_CODE, D_COUNTRY

HAVE

UNF:

HAVE (BUS_NUM, ROUTE, CAPACITY, C_ID, C_NAME, C_DAY, C_MONTH, C_YEAR, C_PHN_NUM, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, D_CITY, C_ZIP_CODE, C_COUNTRY)

1NF:

C_PHN_NUM is a multivalued attribute.

1. BUS_NUM, ROUTE, CAPACITY, C_ID, C_NAME, C_DAY, C_MONTH, C_YEAR, C_PHN_NUM, C_ID, C_NAME, C_AGE, C_PHN_NUM, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY

2NF:

1. BUS_NUM, ROUTE, CAPACITY
2. C_ID, C_NAME, C_AGE, C_PHN_NUM, C_ID, C_NAME, C_DAY, C_MONTH, C_YEAR, C_PHN_NUM, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY

3NF:

1. BUS_NUM, ROUTE, CAPACITY
2. C_ID, C_NAME, C_PHN_NUM
3. C_DAY, C_MONTH, C_YEAR
4. C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY

TABLE CREATION:

1. BUS_NUM, ROUTE, CAPACITY
2. C_ID, C_NAME, C_PHN_NUM, BUS_NUM, C_DOB_ID, C_ADDRESS_ID
3. C_DOB_ID, C_DAY, C_MONTH, C_YEAR
4. C_ADDRESS_ID, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY

CHECK

UNF:

CHECK (C_ID, C_NAME, C_DAY, C_MONTH, C_YEAR, C_PHN_NUM, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY, T_NUM, T_DATE, T_PRICE, SEAT_NUM)

1NF:

C_PHN_NUM is a multivalued attribute.

1. C_ID, C_NAME, C_DAY, C_MONTH, C_YEAR, C_PHN_NUM, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY, T_NUM, T_DATE, T_PRICE, SEAT_NUM

2NF:

1. C_ID, C_NAME, C_DAY, C_MONTH, C_YEAR, C_PHN_NUM, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY
2. T_NUM, T_DATE, T_PRICE, SEAT_NUM

3NF:

1. C_ID, C_NAME, C_PHN_NUM
2. C_DAY, C_MONTH, C_YEAR
3. C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY
4. T_NUM, T_DATE, T_PRICE, SEAT_NUM

Table Creation:

1. C_ID, C_NAME, C_AGE, C_PHN_NUM, C_DOB_ID, C_ADDRESS_ID
2. C_DOB_ID, C_DAY, C_MONTH, C_YEAR
3. C_ADDRESS_ID, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY
4. T_NUM, T_DATE, T_PRICE, SEAT_NUM, C_ID

BUY

UNF:

BUY (T_NUM, T_DATE, SEAT_NUM, T_PRICE, P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS)

1NF:

P_PHN_NUM is a multivalued attribute.

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM, P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS

2NF:

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM
2. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS

3NF:

There is no transitive relationship. Relation already in 3NF.

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM
2. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS

Table Create:

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM, **P_ID**
2. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS

RESERVE

UNF:

RESERVE (T_NUM, T_DATE, T_PRICE, SEAT_NUM, P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, RES_ID, RES_DATE)

1NF:

P_PHN_NUM is a multivalued attribute.

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM, P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, RES_ID, RES_DATE

2NF:

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM
2. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
3. RES_ID, RES_DATE

3NF:

There is no transitive relationship. Relation already in 3NF.

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM
2. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
3. RES_ID, RES_DATE

Table Creation:

1. T_NUM, T_DATE, T_PRICE, SEAT_NUM, RES_ID, RES_DATE, P_ID
2. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS

PAY

UNF:

PAY (P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, PAY_ID, METHOD, TOTAL_PRICE)

1NF:

P_PHN_NUM is a multivalued attribute.

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, PAY_ID, METHOD, TOTAL_PRICE

2NF:

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
2. PAY_ID, METHOD, TOTAL_PRICE

3NF:

There is no transitive relationship. It's already 3NF.

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
2. PAY_ID, METHOD, TOTAL_PRICE

Table Creation:

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
2. PAY_ID, METHOD, TOTAL_PRICE, **P_ID**

TRAVEL

UNF:

TRAVEL (P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, BUS_NUM, ROUTE, CAPACITY)

1NF:

P_PHN_NUM is a multivalued attribute.

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, BUS_NUM, ROUTE, CAPACITY

2NF:

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
2. BUS_NUM, ROUTE, CAPACITY

3NF:

1. P_ID, P_NAME, P_PHN_NUM
2. NUM_OF_SEATS
3. BUS_NUM, ROUTE, CAPACITY

Table Creation:

1. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, **BUS_NUM**
2. BUS_NUM, ROUTE, CAPACITY

FOLLOWS

UNF:

FOLLOWS (BUS_NUM, ROUTE, CAPACITY, SCHEDULE_ID, DEPARTURE_TIME, DESTINATION)

1NF:

There is no multivalued attribute.

1. BUS_NUM, ROUTE, CAPACITY, SCHEDULE_ID, DEPARTURE_TIME, DESTINATION

2NF:

1. BUS_NUM, ROUTE, CAPACITY
2. SCHEDULE_ID, DEPARTURE_TIME, DESTINATION

3NF:

There is no transitive relationship. Relation already in 3NF.

1. BUS_NUM, ROUTE, CAPACITY
2. SCHEDULE_ID, DEPARTURE_TIME, DESTINATION

Table Creation:

1. BUS_NUM, ROUTE, CAPACITY, **SCHEDULE_ID**
2. SCHEDULE_ID, DEPARTURE_TIME, DESTINATION

LIVES

UNF:

LIVES (BUS_NUM, ROUTE, CAPACITY, S_ID, S_NAME, S_DAY, S_MONTH, S_YEAR, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY, S_PHN_NUM)

1NF:

S_PHN_NUM is a multivalued attribute.

1. BUS_NUM, ROUTE, CAPACITY, S_ID, S_NAME, S_DAY, S_MONTH, S_YEAR, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY, S_PHN_NUM

2NF:

1. BUS_NUM, ROUTE, CAPACITY
2. S_ID, S_NAME, S_DAY, S_MONTH, S_YEAR, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY, S_PHN_NUM

3NF:

1. BUS_NUM, ROUTE, CAPACITY
2. S_ID, S_NAME, S_PHN_NUM
3. S_DAY, S_MONTH, S_YEAR
4. S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY

Table Creation:

1. BUS_NUM, ROUTE, CAPACITY
2. S_ID, S_NAME, S_PHN_NUM, **S_DOB_ID**, **S_ADDRESS_ID**, **BUS_NUM**
3. S_DOB_ID, S_DAY, S_MONTH, S_YEAR
4. S_ADDRESS_ID, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY

APPOINT

UNF:

APPOINT (S_ID, S_NAME, S_DAY, S_MONTH, S_YEAR, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY, S_PHN_NUM, COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY)

1NF:

S_PHN_NUM is a multivalued attribute.

1. S_ID, S_NAME, S_DAY, S_MONTH, S_YEAR, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY, S_PHN_NUM, COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

2NF:

1. S_ID, S_NAME, S_DAY, S_MONTH, S_YEAR, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY, S_PHN_NUM
2. COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

3NF:

1. S_ID, S_NAME, S_PHN_NUM
2. S_DAY, S_MONTH, S_YEAR
3. S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY
4. COM_ID, COM_NAME
5. COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

Table Creation:

1. S_ID, S_NAME, S_PHN_NUM, **S_ADDRESS_ID**, **S_DOB_ID**, **COM_ID**
2. S_DOB_ID, S_DAY, S_MONTH, S_YEAR
3. S_ADDRESS_ID, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY
4. COM_ID, COM_NAME, **COM_ADDRESS_ID**
5. COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

OWNED

UNF:

OWNED (BUS_NUM, ROUTE, CAPACITY, COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY)

1NF:

There is no multivalued attribute.

1. BUS_NUM, ROUTE, CAPACITY
2. COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

2NF:

1. BUS_NUM, ROUTE, CAPACITY
2. COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

3NF:

1. BUS_NUM, ROUTE, CAPACITY
2. COM_ID, COM_NAME
3. COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

Table Creation:

1. BUS_NUM, ROUTE, CAPACITY, **COM_ID**
2. COM_ID, COM_NAME, **COM_ADDRESS_ID**
3. COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY

WORKS

UNF:

WORKS (COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY, E_ID, E_NAME)

1NF:

1. COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY, E_ID, E_NAME

2NF:

1. COM_ID, COM_NAME, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY
2. E_ID, E_NAME

3NF:

1. COM_ID, COM_NAME
2. COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY E_ID, E_NAME

Table Creation:

1. COM_ID, COM_NAME, **COM_ADDRESS_ID**
2. COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY
3. E_ID, E_NAME, E_TYPE
4. **COM_ID**, **E_ID**

Temporary Table:

1. ~~BUS_NUM, ROUTE, CAPACITY~~
2. D_ID, D_NAME, D_PHN_NUM, **BUS_NUM**, D_DOB_ID, D_ADDRESS_ID
3. D_DOB_ID, D_DAY, D_MONTH, D_YEAR
4. D_ADDRESS_ID, D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME,
D_CITY, D_ZIP_CODE, D_COUNTRY
5. ~~BUS_NUM, ROUTE, CAPACITY~~
6. C_ID, C_NAME, C_PHN_NUM, **BUS_NUM**, C_DOB_ID, C_ADDRESS_ID
7. C_DOB_ID, C_DAY, C_MONTH, C_YEAR
8. C_ADDRESS_ID, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME,
C_CITY, C_ZIP_CODE, C_COUNTRY
9. C_ID, C_NAME, C_AGE, C_PHN_NUM, C_DOB_ID, C_ADDRESS_ID
10. C_DOB_ID, C_DAY, C_MONTH, C_YEAR
11. C_ADDRESS_ID, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME,
C_CITY, C_ZIP_CODE, C_COUNTRY
12. T_NUM, T_DATE, T_PRICE, SEAT_NUM, C_ID
13. T_NUM, T_DATE, T_PRICE, SEAT_NUM, P_ID
14. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
15. T_NUM, T_DATE, T_PRICE, SEAT_NUM, RES_ID, RES_DATE, P_ID
16. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
17. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, **BUS_NUM**
18. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS
19. PAY_ID, METHOD, TOTAL_PRICE, P_ID
20. ~~BUS_NUM, ROUTE, CAPACITY~~
21. BUS_NUM, ROUTE, CAPACITY, **SCHEDULE_ID**
22. SCHEDULE_ID, DEPARTURE_TIME, DESTINATION
23. ~~BUS_NUM, ROUTE, CAPACITY~~
24. S_ID, S_NAME, S_PHN_NUM, S_DOB_ID, S_ADDRESS_ID, **BUS_NUM**
25. S_DOB_ID, S_DAY, S_MONTH, S_YEAR
26. S_ADDRESS_ID, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME,
S_CITY, S_ZIP_CODE, S_COUNTRY
27. S_ID, S_NAME, S_PHN_NUM, S_ADDRESS_ID, S_DOB_ID, COM_ID
28. S_DOB_ID, S_DAY, S_MONTH, S_YEAR
29. S_ADDRESS_ID, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME,
S_CITY, S_ZIP_CODE, S_COUNTRY
30. COM_ID, COM_NAME, **COM_ADDRESS_ID**
31. COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY
32. BUS_NUM, ROUTE, CAPACITY, **COM_ID**
33. ~~COM_ID, COM_NAME, COM_ADDRESS_ID~~
34. ~~COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY~~
35. ~~COM_ID, COM_NAME, COM_ADDRESS_ID~~
36. ~~COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY~~
37. E_ID, E_NAME, E_TYPE
38. **COM_ID**, **E_ID**

FINAL TABLE:

1. D_ID, D_NAME, D_PHN_NUM1, D_PHN_NUM2, **BUS_NUM**, **D_DOB_ID**, **D_ADDRESS_ID**
2. D_DOB_ID, D_DAY, D_MONTH, D_YEAR
3. D_ADDRESS_ID, D_STREET_NUM, D_STREET_NAME, D_APARTMENT_NUM, D_APARTMENT_NAME, D_CITY, D_ZIP_CODE, D_COUNTRY
4. C_ID, C_NAME, C_PHN_NUM1, C_PHN_NUM2, **BUS_NUM**, **C_DOB_ID**, **C_ADDRESS_ID**
5. C_DOB_ID, C_DAY, C_MONTH, C_YEAR
6. C_ADDRESS_ID, C_STREET_NUM, C_STREET_NAME, C_APARTMENT_NUM, C_APARTMENT_NAME, C_CITY, C_ZIP_CODE, C_COUNTRY
7. T_NUM, T_DATE, T_PRICE, SEAT_NUM, RES_ID, RES_DATE, **C_ID**, **P_ID**
8. P_ID, P_NAME, P_PHN_NUM, NUM_OF_SEATS, **BUS_NUM**
9. PAY_ID, METHOD, TOTAL_PRICE, **P_ID**
10. **BUS_NUM**, ROUTE, CAPACITY, **SCHEDULE_ID**, **COM_ID**
11. SCHEDULE_ID, DEPARTURE_TIME, DESTINATION
12. S_ID, S_NAME, S_PHN_NUM1, S_PHN_NUM2, **S_DOB_ID**, **S_ADDRESS_ID**, **BUS_NUM**
13. S_DOB_ID, S_DAY, S_MONTH, S_YEAR
14. S_ADDRESS_ID, S_STREET_NUM, S_STREET_NAME, S_APARTMENT_NUM, S_APARTMENT_NAME, S_CITY, S_ZIP_CODE, S_COUNTRY
15. COM_ID, COM_NAME, **COM_ADDRESS_ID**
16. COM_ADDRESS_ID, COM_STREET_NUM, COM_STREET_NAME, COM_CITY, COM_COUNTRY
17. E_ID, E_NAME, E_TYPE
18. **COM_ID**, **E_ID**

The diagram illustrates a database schema for a bus system. It includes tables for driver information, conductor information, passenger information, tickets, schedules, bus information, supervisor information, company information, and employee information. Relationships are shown with lines and cardinalities (1, *, 1:1, 1:M, etc.).

Tables and Attributes:

- Driver_Info**: ID (INT), NAME (VARCHAR2(50)), PHN_NUM1 (VARCHAR2(15)), PHN_NUM2 (VARCHAR2(15)), BUS_NUM (INT), Driver_DOB_ID (INT), Driver_Address_ID (INT).
- Driver_DOB**: ID (INT), DAY (INT), MONTH (INT), YEAR (INT).
- Driver_Address**: ID (INT), STREET_NUM (NUMBER(5)), STREET_NAME (VARCHAR2(50)), APARTMENT_NUM (NUMBER(5)), APARTMENT_NAME (VARCHAR2(50)), CITY (VARCHAR2(50)), ZIP_CODE (VARCHAR2(10)), COUNTRY (VARCHAR2(50)).
- Conductor_Info**: ID (INT), NAME (VARCHAR2(50)), PHN_NUM1 (VARCHAR2(15)), PHN_NUM2 (VARCHAR2(15)), BUS_NUM (INT), Conductor_DOB_ID (INT), Conductor_Address_ID (INT).
- Conductor_DOB**: ID (INT), DAY (NUMBER(2)), MONTH (NUMBER(2)), YEAR (NUMBER(4)).
- Conductor_Address**: ID (INT), STREET_NUM (NUMBER(5)), STREET_NAME (VARCHAR2(50)), APARTMENT_NUM (NUMBER(5)), APARTMENT_NAME (VARCHAR2(50)), CITY (VARCHAR2(50)), ZIP_CODE (VARCHAR2(10)), COUNTRY (VARCHAR2(50)).
- Passenger_Info**: ID (INT), NAME (VARCHAR2(50)), PHN_NUM1 (NUMBER(15)), PHN_NUM2 (NUMBER(15)), NUM_OF_SEATS (NUMBER(3)), Bus_Number (INT).
- Payment**: PAY_ID (INT), METHOD (VARCHAR2(12)), TOTAL_PRICE (NUMBER(7,2)), Passenger_ID (INT).
- Bus_Info**: BUS_NUM (INT), ROUTE (VARCHAR2(50)), CAPACITY (NUMBER(3)), Schedule_ID (INT), Company_ID (INT).
- Ticket**: NUM (INT), Ticket_DATE (DATE), PRICE (NUMBER(7,2)), SEAT_NUMBER (VARCHAR2(3)), ID (INT), Reservation_DATE (DATE), Conductor_ID (INT), Passenger_ID (INT).
- Supervisor_Info**: ID (INT), NAME (VARCHAR2(50)), PHN_NUM1 (VARCHAR2(15)), PHN_NUM2 (VARCHAR2(15)), Supervisor_DOB_ID (INT), Supervisor_Address_ID (INT), Bus_Number (INT).
- Supervisor_DOB**: ID (INT), DAY (NUMBER(2)), MONTH (NUMBER(2)), YEAR (NUMBER(4)).
- Supervisor_Address**: ID (INT), STREET_NUM (NUMBER(5)), STREET_NAME (VARCHAR2(20)), APARTMENT_NUM (NUMBER(5)), APARTMENT_NAME (VARCHAR2(30)), CITY (VARCHAR2(50)), ZIP_CODE (VARCHAR2(2)), COUNTRY (VARCHAR2(50)).
- Schedule**: ID (INT), DEPARTURE_TIME (TIMESTAMP), DESTINATION (VARCHAR2(50)).
- Company_Info**: ID (INT), NAME (VARCHAR2(100)), Company_Address_ID (INT).
- Company_Address**: ID (INT), STREET_NUM (NUMBER(5)), STREET_NAME (VARCHAR2(20)), CITY (VARCHAR2(50)), COUNTRY (VARCHAR2(50)).
- Employee_Info**: ID (INT), NAME (VARCHAR2(50)), TYPE (VARCHAR2(6)).
- Company_Employee_Mapping**: Company_ID (INT), Employee_ID (INT).

Relationships:

- Driver_Info** (1) to **Driver_DOB** (1): 1:1 relationship.
- Driver_Info** (1) to **Driver_Address** (1): 1:1 relationship.
- Driver_Info** (1) to **Conductor_Info** (1): 1:1 relationship.
- Driver_Info** (1) to **Conductor_DOB** (1): 1:1 relationship.
- Driver_Info** (1) to **Conductor_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Conductor_DOB** (1): 1:1 relationship.
- Conductor_Info** (1) to **Conductor_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Passenger_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Payment** (1): 1:1 relationship.
- Conductor_Info** (1) to **Supervisor_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Supervisor_DOB** (1): 1:1 relationship.
- Conductor_Info** (1) to **Supervisor_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Address** (1): 1:1 relationship.
- Conductor_Info** (1) to **Employee_Info** (1): 1:1 relationship.
- Conductor_Info** (1) to **Company_Employee_Mapping** (1): 1:1 relationship.

Table Creation:

```
1. CREATE TABLE Driver_DOB
(
    ID INT PRIMARY KEY,
    DAY INT NOT NULL,
    MONTH INT NOT NULL,
    YEAR INT NOT NULL
);
```

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```
CREATE TABLE Driver_DOB
(
    ID INT PRIMARY KEY,
    DAY INT NOT NULL,
    MONTH INT NOT NULL,
    YEAR INT NOT NULL
);
```

```
DESCRIBE Driver_DOB;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object DRIVER_DOB

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DRIVER_DOB	ID	Number	-	-	0	1	-	-	-
	DAY	Number	-	-	0	-	-	-	-
	MONTH	Number	-	-	0	-	-	-	-
	YEAR	Number	-	-	0	-	-	-	-
1 - 4									

```

2. CREATE TABLE Driver_Address
(
    ID INT PRIMARY KEY,
    STREET_NUM NUMBER(5) NOT NULL,
    STREET_NAME VARCHAR2(50) NOT NULL,
    APARTMENT_NUM NUMBER(5) NOT NULL,
    APARTMENT_NAME VARCHAR2(50) NOT NULL,
    CITY VARCHAR2(50) NOT NULL,
    ZIP_CODE VARCHAR2(10) NOT NULL,
    COUNTRY VARCHAR2(50) NOT NULL
);

```

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```

CREATE TABLE Driver_Address
(
    ID INT PRIMARY KEY,
    STREET_NUM NUMBER(5) NOT NULL,
    STREET_NAME VARCHAR2(50) NOT NULL,
    APARTMENT_NUM NUMBER(5) NOT NULL,
    APARTMENT_NAME VARCHAR2(50) NOT NULL,
    CITY VARCHAR2(50) NOT NULL,
    ZIP_CODE VARCHAR2(10) NOT NULL,
    COUNTRY VARCHAR2(50) NOT NULL
);

```

DESCRIBE Driver_Address;

Results Explain Describe Saved SQL History

Object Type TABLE Object DRIVER_ADDRESS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DRIVER_ADDRESS	ID	Number	-	-	0	1	-	-	-
	STREET_NUM	Number	-	5	0	-	-	-	-
	STREET_NAME	Varchar2	50	-	-	-	-	-	-
	APARTMENT_NUM	Number	-	5	0	-	-	-	-
	APARTMENT_NAME	Varchar2	50	-	-	-	-	-	-
	CITY	Varchar2	50	-	-	-	-	-	-
	ZIP_CODE	Varchar2	10	-	-	-	-	-	-
	COUNTRY	Varchar2	50	-	-	-	-	-	-
1 - 8									

```

3. CREATE TABLE Conductor_DOB
(
    ID INT PRIMARY KEY,
    DAY NUMBER(2) NOT NULL,
    MONTH NUMBER(2) NOT NULL,
    YEAR NUMBER(4) NOT NULL
);

```

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```

CREATE TABLE Conductor_DOB
(
    ID INT PRIMARY KEY,
    DAY NUMBER(2) NOT NULL,
    MONTH NUMBER(2) NOT NULL,
    YEAR NUMBER(4) NOT NULL
);

```

DESCRIBE Conductor_DOB;

Results **Explain** **Describe** **Saved SQL** **History**

Object Type **TABLE** Object **CONDUCTOR_DOB**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>CONDUCTOR_DOB</u>	<u>ID</u>	Number	-	-	0	1	-	-	-
	<u>DAY</u>	Number	-	2	0	-	-	-	-
	<u>MONTH</u>	Number	-	2	0	-	-	-	-
	<u>YEAR</u>	Number	-	4	0	-	-	-	-
1 - 4									

```

CREATE TABLE Conductor_Address
(
    ID INT PRIMARY KEY,
    STREET_NUM NUMBER(5) NOT NULL,
    STREET_NAME VARCHAR2(50) NOT NULL,
    APARTMENT_NUM NUMBER(5) NOT NULL,
    APARTMENT_NAME VARCHAR2(50) NOT NULL,
    CITY VARCHAR2(50) NOT NULL,
    ZIP_CODE VARCHAR2(10) NOT NULL,
    COUNTRY VARCHAR2(50) NOT NULL
);

```

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```

CREATE TABLE Conductor_Address
(
    ID INT PRIMARY KEY,
    STREET_NUM NUMBER(5) NOT NULL,
    STREET_NAME VARCHAR2(50) NOT NULL,
    APARTMENT_NUM NUMBER(5) NOT NULL,
    APARTMENT_NAME VARCHAR2(50) NOT NULL,
    CITY VARCHAR2(50) NOT NULL,
    ZIP_CODE VARCHAR2(10) NOT NULL,
    COUNTRY VARCHAR2(50) NOT NULL
);

```

DESCRIBE Conductor_Address;

Results Explain Describe Saved SQL History

Object Type TABLE Object CONDUCTOR_ADDRESS

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CONDUCTOR_ADDRESS	ID	Number	-	-	0	1	-	-	-
	STREET_NUM	Number	-	5	0	-	-	-	-
	STREET_NAME	Varchar2	50	-	-	-	-	-	-
	APARTMENT_NUM	Number	-	5	0	-	-	-	-
	APARTMENT_NAME	Varchar2	50	-	-	-	-	-	-
	CITY	Varchar2	50	-	-	-	-	-	-
	ZIP_CODE	Varchar2	10	-	-	-	-	-	-
	COUNTRY	Varchar2	50	-	-	-	-	-	-

1 - 8

```

5. CREATE TABLE Supervisor_DOB
(
    ID INT PRIMARY KEY,
    DAY NUMBER(2) NOT NULL,
    MONTH NUMBER(2) NOT NULL,
    YEAR NUMBER(4) NOT NULL
);

```

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```

CREATE TABLE Supervisor_DOB
(
    ID INT PRIMARY KEY,
    DAY NUMBER(2) NOT NULL,
    MONTH NUMBER(2) NOT NULL,
    YEAR NUMBER(4) NOT NULL
);

```

DESCRIBE Supervisor_DOB;

Results Explain Describe Saved SQL History

Object Type TABLE Object SUPERVISOR_DOB

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>SUPERVISOR_DOB</u>	<u>ID</u>	Number	-	-	0	1	-	-	-
	<u>DAY</u>	Number	-	2	0	-	-	-	-
	<u>MONTH</u>	Number	-	2	0	-	-	-	-
	<u>YEAR</u>	Number	-	4	0	-	-	-	-
1 - 4									

6. CREATE TABLE Supervisor_Address

```
(
    ID INT PRIMARY KEY,
    STREET_NUM NUMBER(5) NOT NULL,
    STREET_NAME VARCHAR2(20) NOT NULL,
    APARTMENT_NUM NUMBER(5) NOT NULL,
    APARTMENT_NAME VARCHAR2(30) NOT NULL,
    CITY VARCHAR2(50) NOT NULL,
    ZIP_CODE VARCHAR2(10) NOT NULL,
    COUNTRY VARCHAR2(50) NOT NULL
);
```

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```
CREATE TABLE Supervisor_Address
(
    ID INT PRIMARY KEY,
    STREET_NUM NUMBER(5) NOT NULL,
    STREET_NAME VARCHAR2(20) NOT NULL,
    APARTMENT_NUM NUMBER(5) NOT NULL,
    APARTMENT_NAME VARCHAR2(30) NOT NULL,
    CITY VARCHAR2(50) NOT NULL,
    ZIP_CODE VARCHAR2(10) NOT NULL,
    COUNTRY VARCHAR2(50) NOT NULL
);

DESCRIBE Supervisor_Address;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **SUPERVISOR_ADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SUPERVISOR_ADDRESS	ID	Number	-	-	0	1	-	-	-
	STREET_NUM	Number	-	5	0	-	-	-	-
	STREET_NAME	Varchar2	20	-	-	-	-	-	-
	APARTMENT_NUM	Number	-	5	0	-	-	-	-
	APARTMENT_NAME	Varchar2	30	-	-	-	-	-	-
	CITY	Varchar2	50	-	-	-	-	-	-
	ZIP_CODE	Varchar2	10	-	-	-	-	-	-
	COUNTRY	Varchar2	50	-	-	-	-	-	-

1 - 8

7. CREATE TABLE Company_Address

```
(  
    ID INT PRIMARY KEY,  
    STREET_NUM NUMBER(5) NOT NULL,  
    STREET_NAME VARCHAR2(20) NOT NULL,  
    CITY VARCHAR2(50) NOT NULL,  
    COUNTRY VARCHAR2(50) NOT NULL  
);
```

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```
CREATE TABLE Company_Address  
(  
    ID INT PRIMARY KEY,  
    STREET_NUM NUMBER(5) NOT NULL,  
    STREET_NAME VARCHAR2(20) NOT NULL,  
    CITY VARCHAR2(50) NOT NULL,  
    COUNTRY VARCHAR2(50) NOT NULL  
);
```

DESCRIBE Company_Address;

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **COMPANY_ADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COMPANY_ADDRESS	ID	Number	-	-	0	1	-	-	-
	STREET_NUM	Number	-	5	0	-	-	-	-
	STREET_NAME	Varchar2	20	-	-	-	-	-	-
	CITY	Varchar2	50	-	-	-	-	-	-
	COUNTRY	Varchar2	50	-	-	-	-	-	-
1 - 5									

8. CREATE TABLE Company_Info

```
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(100) NOT NULL,
    Comapnay_Address_ID INT NOT NULL,
    FOREIGN KEY(Comapnay_Address_ID) REFERENCES Company_Address(ID)
);
```

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```
CREATE TABLE Company_Info
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(100) NOT NULL,
    Comapnay_Address_ID INT NOT NULL,
    FOREIGN KEY(Comapnay_Address_ID) REFERENCES Company_Address(ID)
);
```

DESCRIBE Company_Info;

Results Explain Describe Saved SQL History

Object Type TABLE Object COMPANY_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COMPANY_INFO	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	100	-	-	-	-	-	-
	COMAPNAY_ADDRESS_ID	Number	-	-	0	-	-	-	-
1 - 3									

9. CREATE TABLE Schedule

```
(  
    ID INT PRIMARY KEY,  
    DEPARTURE_TIME TIMESTAMP NOT NULL,  
    DESTINATION VARCHAR2(50) NOT NULL  
);
```

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```
CREATE TABLE Schedule  
(  
    ID INT PRIMARY KEY,  
    DEPARTURE_TIME TIMESTAMP NOT NULL,  
    DESTINATION VARCHAR2(50) NOT NULL  
);
```

DESCRIBE Schedule;

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **SCHEDULE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SCHEDULE	ID	Number	-	-	0	1	-	-	-
	DEPARTURE_TIME	Timestamp(6)	11	-	6	-	-	-	-
	DESTINATION	Varchar2	50	-	-	-	-	-	-
1 - 3									

10. CREATE TABLE Bus_Info

```
(
    BUS_NUM INT PRIMARY KEY,
    ROUTE VARCHAR2(50) NOT NULL,
    CAPACITY NUMBER(3) NOT NULL,
    Schedule_ID INT NOT NULL,
    Compnay_ID INT NOT NULL,
    FOREIGN KEY(Schedule_ID) REFERENCES Schedule(ID),
    FOREIGN KEY(Compnay_ID) REFERENCES Company_Info(ID)
);
```

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```
CREATE TABLE Bus_Info
(
    BUS_NUM INT PRIMARY KEY,
    ROUTE VARCHAR2(50) NOT NULL,
    CAPACITY NUMBER(3) NOT NULL,
    Schedule_ID INT NOT NULL,
    Compnay_ID INT NOT NULL,
    FOREIGN KEY(Schedule_ID) REFERENCES Schedule(ID),
    FOREIGN KEY(Compnay_ID) REFERENCES Company_Info(ID)
);
```

DESCRIBE Bus_Info;

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **BUS_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>BUS_INFO</u>	<u>BUS_NUM</u>	Number	-	-	0	1	-	-	-
	<u>ROUTE</u>	Varchar2	50	-	-	-	-	-	-
	<u>CAPACITY</u>	Number	-	3	0	-	-	-	-
	<u>SCHEDULE_ID</u>	Number	-	-	0	-	-	-	-
	<u>COMPNAY_ID</u>	Number	-	-	0	-	-	-	-

1 - 5

11. CREATE TABLE Driver_Info

```
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    BUS_NUM INT NOT NULL,
    Driver_DOB_ID INT NOT NULL,
    Driver_Address_ID INT NOT NULL,
    FOREIGN KEY(BUS_NUM) REFERENCES Bus_Info(BUS_NUM),
    FOREIGN KEY(Driver_DOB_ID) REFERENCES Driver_DOB(ID),
    FOREIGN KEY(Driver_Address_ID) REFERENCES Driver_Address(ID)
);
```

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```
CREATE TABLE Driver_Info
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    BUS_NUM INT NOT NULL,
    Driver_DOB_ID INT NOT NULL,
    Driver_Address_ID INT NOT NULL,
    FOREIGN KEY(BUS_NUM) REFERENCES Bus_Info(BUS_NUM),
    FOREIGN KEY(Driver_DOB_ID) REFERENCES Driver_DOB(ID),
    FOREIGN KEY(Driver_Address_ID) REFERENCES Driver_Address(ID)
);

DESCRIBE Driver_Info;
```

Results Explain Describe **Saved SQL** History

Object Type **TABLE** Object **DRIVER_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DRIVER_INFO	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	50	-	-	-	-	-	-
	PHN_NUM1	Varchar2	15	-	-	-	-	-	-
	PHN_NUM2	Varchar2	15	-	-	-	✓	-	-
	BUS_NUM	Number	-	-	0	-	-	-	-
	DRIVER_DOB_ID	Number	-	-	0	-	-	-	-
	DRIVER_ADDRESS_ID	Number	-	-	0	-	-	-	-
1 - 7									

12. CREATE TABLE Conductor_Info

```
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    BUS_NUM INT NOT NULL,
    Conductor_DOB_ID INT NOT NULL,
    Conductor_Address_ID INT NOT NULL,
    FOREIGN KEY(BUS_NUM) REFERENCES Bus_Info(BUS_NUM),
    FOREIGN KEY(Conductor_DOB_ID) REFERENCES Conductor_DOB(ID),
    FOREIGN KEY(Conductor_Address_ID) REFERENCES Conductor_Address(ID)
);
```

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```
CREATE TABLE Conductor_Info
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    BUS_NUM INT NOT NULL,
    Conductor_DOB_ID INT NOT NULL,
    Conductor_Address_ID INT NOT NULL,
    FOREIGN KEY(BUS_NUM) REFERENCES Bus_Info(BUS_NUM),
    FOREIGN KEY(Conductor_DOB_ID) REFERENCES Conductor_DOB(ID),
    FOREIGN KEY(Conductor_Address_ID) REFERENCES Conductor_Address(ID)
);
```

DESCRIBE Conductor_Info;

Results Explain Describe Saved SQL History

Object Type TABLE Object CONDUCTOR_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CONDUCTOR_INFO	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	50	-	-	-	-	-	-
	PHN_NUM1	Varchar2	15	-	-	-	-	-	-
	PHN_NUM2	Varchar2	15	-	-	-	✓	-	-
	BUS_NUM	Number	-	-	0	-	-	-	-
	CONDUCTOR_DOB_ID	Number	-	-	0	-	-	-	-
	CONDUCTOR_ADDRESS_ID	Number	-	-	0	-	-	-	-
1 - 7									

13. CREATE TABLE Passenger_Info

```
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    NUM_OF_SEATS NUMBER(3) NOT NULL,
    Bus_Number INT NOT NULL,
    FOREIGN KEY(Bus_Number) REFERENCES Bus_Info(BUS_NUM)
);
```

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```
CREATE TABLE Passenger_Info
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    NUM_OF_SEATS NUMBER(3) NOT NULL,
    Bus_Number INT NOT NULL,
    FOREIGN KEY(Bus_Number) REFERENCES Bus_Info(BUS_NUM)
);
```

```
DESCRIBE Passenger_Info;
```

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **PASSENGER_INFO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PASSENGER_INFO	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	50	-	-	-	-	-	-
	PHN_NUM1	Varchar2	15	-	-	-	-	-	-
	PHN_NUM2	Varchar2	15	-	-	-	✓	-	-
	NUM_OF_SEATS	Number	-	3	0	-	-	-	-
	BUS_NUMBER	Number	-	-	0	-	-	-	-
1 - 6									

14. CREATE TABLE Payment

```
(
    PAY_ID INT PRIMARY KEY,
    METHOD VARCHAR2(12) CHECK (METHOD IN ('Cash', 'Card', 'Nagad', 'Bikash')) NOT NULL,
    TOTAL_PRICE NUMBER (7, 2) NOT NULL,
    Passenger_ID INT NOT NULL,
    FOREIGN KEY(Passenger_ID) REFERENCES Passenger_Info(ID)
);
```

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```
CREATE TABLE Payment
(
    PAY_ID INT PRIMARY KEY,
    METHOD VARCHAR2(12) CHECK (METHOD IN ('Cash', 'Card', 'Nagad', 'Bikash')) NOT NULL,
    TOTAL_PRICE NUMBER (7, 2) NOT NULL,
    Passenger_ID INT NOT NULL,
    FOREIGN KEY(Passenger_ID) REFERENCES Passenger_Info(ID)
);
```

DESCRIBE Payment;

Results Explain Describe Saved SQL History

Object Type TABLE Object PAYMENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAYMENT	PAY_ID	Number	-	-	0	1	-	-	-
	METHOD	Varchar2	12	-	-	-	-	-	-
	TOTAL_PRICE	Number	-	7	2	-	-	-	-
	PASSENGER_ID	Number	-	-	0	-	-	-	-
1 - 4									

15. CREATE TABLE Ticket

```
(
    NUM INT NOT NULL,
    Ticket_DATE DATE NOT NULL,
    PRICE NUMBER (7, 2) NOT NULL,
    SEAT_NUMBER VARCHAR2(500) NOT NULL,
    ID INT NOT NULL,
    Reservation_DATE DATE NOT NULL,
    Conductor_ID INT NOT NULL,
    Passenger_ID INT NOT NULL,
    PRIMARY KEY (NUM, ID),
    FOREIGN KEY(Conductor_ID) REFERENCES Conductor_Info(ID),
    FOREIGN KEY(Passenger_ID) REFERENCES Passenger_Info(ID)
);
```

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```
CREATE TABLE Ticket
(
    NUM INT NOT NULL,
    Ticket_DATE DATE NOT NULL,
    PRICE NUMBER (7, 2) NOT NULL,
    SEAT_NUMBER VARCHAR2(500) NOT NULL,
    ID INT NOT NULL,
    Reservation_DATE DATE NOT NULL,
    Conductor_ID INT NOT NULL,
    Passenger_ID INT NOT NULL,
    PRIMARY KEY (NUM, ID),
    FOREIGN KEY(Conductor_ID) REFERENCES Conductor_Info(ID),
    FOREIGN KEY(Passenger_ID) REFERENCES Passenger_Info(ID)
);

DESCRIBE Ticket;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **TABLE** Object **TICKET**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TICKET	NUM	Number	-	-	0	1	-	-	-
	TICKET_DATE	Date	7	-	-	-	-	-	-
	PRICE	Number	-	7	2	-	-	-	-
	SEAT_NUMBER	Varchar2	500	-	-	-	-	-	-
	ID	Number	-	-	0	2	-	-	-
	RESERVATION_DATE	Date	7	-	-	-	-	-	-
	CONDUCTOR_ID	Number	-	-	0	-	-	-	-
	PASSENGER_ID	Number	-	-	0	-	-	-	-

1 - 8

16. CREATE TABLE Supervisor_Info

```
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    Supervisor_DOB_ID INT NOT NULL,
    Supervisor_Address_ID INT NOT NULL,
    Bus_Number INT NOT NULL,
    FOREIGN KEY(Supervisor_DOB_ID) REFERENCES Supervisor_DOB(ID),
    FOREIGN KEY(Supervisor_Address_ID) REFERENCES Supervisor_Address(ID),
    FOREIGN KEY(Bus_Number) REFERENCES Bus_Info(BUS_NUM)
);
```

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```
CREATE TABLE Supervisor_Info
(
    ID INT PRIMARY KEY,
    NAME VARCHAR2(50) NOT NULL,
    PHN_NUM1 VARCHAR2(15) NOT NULL,
    PHN_NUM2 VARCHAR2(15),
    Supervisor_DOB_ID INT NOT NULL,
    Supervisor_Address_ID INT NOT NULL,
    Bus_Number INT NOT NULL,
    FOREIGN KEY(Supervisor_DOB_ID) REFERENCES Supervisor_DOB(ID),
    FOREIGN KEY(Supervisor_Address_ID) REFERENCES Supervisor_Address(ID),
    FOREIGN KEY(Bus_Number) REFERENCES Bus_Info(BUS_NUM)
);
```

DESCRIBE Supervisor_Info;

Results Explain Describe Saved SQL History

Object Type TABLE Object SUPERVISOR_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SUPERVISOR_INFO	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	50	-	-	-	-	-	-
	PHN_NUM1	Varchar2	15	-	-	-	-	-	-
	PHN_NUM2	Varchar2	15	-	-	-	✓	-	-
	SUPERVISOR_DOB_ID	Number	-	-	0	-	-	-	-
	SUPERVISOR_ADDRESS_ID	Number	-	-	0	-	-	-	-
	BUS_NUMBER	Number	-	-	0	-	-	-	-

1 - 7

17. CREATE TABLE Employee_Info

```
(  
    ID INT PRIMARY KEY,  
    NAME VARCHAR2(50) NOT NULL,  
    TYPE VARCHAR2(30) NOT NULL  
);
```

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```
CREATE TABLE Employee_Info  
(  
    ID INT PRIMARY KEY,  
    NAME VARCHAR2(50) NOT NULL,  
    TYPE VARCHAR2(30) NOT NULL  
);
```

```
DESCRIBE Employee_Info;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object EMPLOYEE_INFO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE_INFO	ID	Number	-	-	0	1	-	-	-
	NAME	Varchar2	50	-	-	-	-	-	-
	TYPE	Varchar2	30	-	-	-	-	-	-
1 - 3									

18. CREATE TABLE Company_Employee_Mapping

```
(  
    Company_ID INT NOT NULL,  
    Employee_ID INT NOT NULL,  
    PRIMARY KEY(Company_ID, Employee_ID),  
    FOREIGN KEY(Company_ID) REFERENCES Company_Info(ID),  
    FOREIGN KEY(Employee_ID) REFERENCES Employee_Info(ID)  
);
```

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```
CREATE TABLE Company_Employee_Mapping  
(  
    Company_ID INT NOT NULL,  
    Employee_ID INT NOT NULL,  
    PRIMARY KEY(Company_ID, Employee_ID),  
    FOREIGN KEY(Company_ID) REFERENCES Company_Info(ID),  
    FOREIGN KEY(Employee_ID) REFERENCES Employee_Info(ID)  
);
```

DESCRIBE Company_Employee_Mapping;

Results Explain Describe Saved SQL History

Object Type TABLE Object COMPANY_EMPLOYEE_MAPPING

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
COMPANY_EMPLOYEE_MAPPING	COMPANY_ID	Number	-	-	0	1	-	-	-
	EMPLOYEE_ID	Number	-	-	0	2	-	-	-
1 - 2									

SEQUENCE:

Table	Sequence
	1. CREATE SEQUENCE Driver_DOB_ID INCREMENT BY 1 START WITH 1 MAXVALUE 1000 NOCACHE NOCYCLE;
	2. CREATE SEQUENCE Driver_Address_ID INCREMENT BY 1 START WITH 1 MAXVALUE 1000 NOCACHE NOCYCLE;
	3. CREATE SEQUENCE Conductor_DOB_ID INCREMENT BY 1 START WITH 1 MAXVALUE 1000 NOCACHE NOCYCLE;

4. CREATE SEQUENCE Conductor_Address_ID
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

5. CREATE SEQUENCE Supervisor_DOB_ID

```
INCREMENT BY 1  
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

6. CREATE SEQUENCE Supervisor_Address_ID
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;
7. CREATE SEQUENCE Company_Address_ID
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;
8. CREATE SEQUENCE Company_Info_ID
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;
9. CREATE SEQUENCE Company_Address_ID_fk1
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;
10. CREATE SEQUENCE Schedule_ID
INCREMENT BY 1

```
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

```
11. CREATE SEQUENCE Bus_Info_ID  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
12. CREATE SEQUENCE Schedule_ID_fk1  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
13. CREATE SEQUENCE Company_Info_ID_fk1  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
14. CREATE SEQUENCE Driver_Info_ID  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
15. CREATE SEQUENCE Bus_Info_ID_fk1  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000
```


NOCACHE
NOCYCLE;

16. CREATE SEQUENCE Driver_DOB_ID_fk1
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

17. CREATE SEQUENCE Driver_Address_ID_fk1
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

18. CREATE SEQUENCE Conductor_Info_ID
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

19. CREATE SEQUENCE Bus_Info_ID_fk2
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

20. CREATE SEQUENCE Conductor_DOB_ID_fk1
INCREMENT BY 1

```
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

```
21. CREATE SEQUENCE Conductor_Address_ID_fk1  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
22. CREATE SEQUENCE Passenger_Info_ID  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
23. CREATE SEQUENCE Bus_Info_ID_fk3  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
24. CREATE SEQUENCE Pay_Info_ID  
    INCREMENT BY 1  
    START WITH 1  
    MAXVALUE 1000  
    NOCACHE  
    NOCYCLE;
```

```
25. CREATE SEQUENCE Passenger_Info_ID_fk1  
    INCREMENT BY 1  
    START WITH 1
```

```
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

26. CREATE SEQUENCE Ticket_ID

```
INCREMENT BY 1  
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

27. CREATE SEQUENCE Conductor_Info_ID_fk1

```
INCREMENT BY 1  
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

28. CREATE SEQUENCE Passenger_Info_ID_fk2

```
INCREMENT BY 1  
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

29. CREATE SEQUENCE Supervisor_Info_ID

```
INCREMENT BY 1  
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

30. CREATE SEQUENCE Supervisor_DOB_ID_fk1

```
INCREMENT BY 1  
START WITH 1  
MAXVALUE 1000  
NOCACHE  
NOCYCLE;
```

31. CREATE SEQUENCE Supervisor_Address_ID_fk1
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

32. CREATE SEQUENCE Bus_Info_ID_fk4
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

33. CREATE SEQUENCE Employee_Info_ID
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

34. CREATE SEQUENCE Company_Info_ID_fk2
INCREMENT BY 1
START WITH 1
MAXVALUE 1000
NOCACHE
NOCYCLE;

35. CREATE SEQUENCE Employee_Info_ID_fk1
INCREMENT BY 1
START WITH 1
MAXVALUE 1000

NOCACHE
NOCYCLE;

DATA INSERTION:

1. Driver_DOB

- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 1, 1, 1980);
- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 12, 6, 1980);
- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 18, 3, 1982);
- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 9, 2, 1987);
- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 10, 12, 1985);
- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 28, 2, 1983);
- INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 12, 7, 1978);

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```
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 1, 1, 1980);
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 12, 6, 1980);
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 18, 3, 1982);
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 9, 2, 1987);
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 10, 12, 1985);
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 28, 2, 1983);
INSERT INTO Driver_DOB (ID, DAY, MONTH, YEAR)
VALUES (Driver_DOB_ID.NEXTVAL, 12, 7, 1978);

SELECT * FROM Driver_DOB;
```

Results Explain Describe Saved SQL History

ID	DAY	MONTH	YEAR
1	1	1	1980
2	12	6	1980
3	18	3	1982
4	9	2	1987
5	10	12	1985
6	28	2	1983
7	12	7	1978

7 rows returned in 0.00 seconds

[CSV Export](#)

2. Driver_Address

- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 135, 'Mirpur Stadium', 67, 'Atwood Apartments', 'Dhaka', '1200', 'Bangladesh');
- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 1234, 'Calle de la Paloma', 17, 'Penthouse Apartments', 'Buenos Aires', '1414', 'Argentina');
- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 7000, 'Avenida das Rosas', 10, 'Garden apartments', 'Brasília', '0A9', 'Brazil');
- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 8320, 'Avenida del Sol', 20, 'Gated communities', 'Santiago', 'K1A', 'Chile');
- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 120, 'Malecón de la Reserva', 40, 'Walk-up apartments', 'Lima', '15074', 'Peru');

- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 04, 'Myeong-dong', 130, 'BHK apartment', 'Seoul', '0537', 'South Korea');
- INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 04, 'Corso Vittorio Emanuele', 130, 'Bungalowl', 'Salerno', '0537', 'Italy');

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```

INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 135, 'Mirpur Stadium', 67, 'Atwood Apartments', 'Dhaka', '1200', 'Bangladesh');
INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 1234, 'Calle de la Paloma', 17, 'Penthouse Apartments', 'Buenos Aires', '1414', 'Argentina');
INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 7000, 'Avenida das Rosas', 10, 'Garden apartments', 'Brasilia', '0A9', 'Brazil');
INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 8320, 'Avenida del Sol', 20, 'Gated communities', 'Santiago', 'K1A', 'Chile');
INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 120, 'Malecón de la Reserva', 40, 'Walk-up apartments', 'Lima', '15074', 'Peru');
INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 04, 'Myeong-dong', 130, 'BHK apartment', 'Seoul', '0537', 'South Korea');
INSERT INTO Driver_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Driver_Address_ID.NEXTVAL, 04, 'Corso Vittorio Emanuele', 130, 'Bungalowl', 'Salerno', '0537', 'Italy');
SELECT * FROM Driver_Address;
  
```

Results Explain Describe Saved SQL History

ID	STREET_NUM	STREET_NAME	APARTMENT_NUM	APARTMENT_NAME	CITY	ZIP_CODE	COUNTRY
1	135	Mirpur Stadium	67	Atwood Apartments	Dhaka	1200	Bangladesh
2	1234	Calle de la Paloma	17	Penthouse Apartments	Buenos Aires	1414	Argentina
3	7000	Avenida das Rosas	10	Garden apartments	Brasilia	0A9	Brazil
4	8320	Avenida del Sol	20	Gated communities	Santiago	K1A	Chile
5	120	Malecón de la Reserva	40	Walk-up apartments	Lima	15074	Peru
6	4	Myeong-dong	130	BHK apartment	Seoul	0537	South Korea
7	4	Corso Vittorio Emanuele	130	Bungalowl	Salerno	0537	Italy

7 rows returned in 0.00 seconds CSV Export

3. Conductor_DOB

- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 24, 9, 1990);
- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 12, 10, 1991);
- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 27, 5, 1993);
- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 4, 2, 1988);
- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 20, 3, 1994);
- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 25, 8, 1991);
- INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 24, 12, 1988);

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```

INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 24, 9, 1990);
INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 12, 10, 1991);
INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 27, 5, 1993);
INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 4, 2, 1988);
INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 20, 3, 1994);
INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 25, 8, 1991);
INSERT INTO Conductor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Conductor_DOB_ID.NEXTVAL, 24, 12, 1988);

```

```
SELECT * FROM Conductor_DOB;
```

Results Explain Describe Saved SQL History

ID	DAY	MONTH	YEAR
1	24	9	1990
2	12	10	1991
3	27	5	1993
4	4	2	1988
5	20	3	1994
6	25	8	1991
7	24	12	1988

7 rows returned in 0.00 seconds

[CSV Export](#)

4. Conductor_Address:

- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
 VALUES (Conductor_Address_ID.NEXTVAL, 456, 'Karlova Street', 32, 'Unit B', 'Prague', '110 00', 'Czech Republic');
- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
 VALUES (Conductor_Address_ID.NEXTVAL, 12, 'Kuratoli Road', 3, 'Unit 2', 'Dhaka', '1229', 'Bangladesh');
- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
 VALUES (Conductor_Address_ID.NEXTVAL, 45, 'Lambton Quay', 96, 'Unit M', 'Wellington', '6011', 'New Zealand');
- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
 VALUES (Conductor_Address_ID.NEXTVAL, 01001, 'Khreshchatyk', 308, 'Unit B', 'Kiev', '11001', 'Ukraine');
- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
 VALUES (Conductor_Address_ID.NEXTVAL, 13, 'Gran Via', 8, 'Unit C', 'Madrid', '28013', 'Spain');
- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
 VALUES (Conductor_Address_ID.NEXTVAL, 1273, 'Avenida da Liberdade', 87, 'Unit D', 'Lisbon', '1250-096', 'Portugal');

- INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 8924, 'Taft Avenue', 64, 'Unit A', 'Manila', '1200', 'Philippines');

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```

INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 456, 'Karlova Street', 32, 'Unit B', 'Prague', '110 00', 'Czech Republic');
INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 12, 'Kuratoli Road', 3, 'Unit 2', 'Dhaka', '1229', 'Bangladesh');
INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 45, 'Lambton Quay', 96, 'Unit M', 'Wellington', '6011', 'New Zealand');
INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 01001, 'Khreshchatyk', 308, 'Unit B', 'Kiev', '11001', 'Ukraine');
INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 13, 'Gran Via', 8, 'Unit C', 'Madrid', '28013', 'Spain');
INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 1273, 'Avenida da Liberdade', 87, 'Unit D', 'Lisbon', '1250-096', 'Portugal');
INSERT INTO Conductor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Conductor_Address_ID.NEXTVAL, 8924, 'Taft Avenue', 64, 'Unit A', 'Manila', '1200', 'Philippines');
SELECT * FROM Conductor_Address;

```

Results Explain Describe Saved SQL History

ID	STREET_NUM	STREET_NAME	APARTMENT_NUM	APARTMENT_NAME	CITY	ZIP_CODE	COUNTRY
1	456	Karlova Street	32	Unit B	Prague	110 00	Czech Republic
2	12	Kuratoli Road	3	Unit 2	Dhaka	1229	Bangladesh
3	45	Lambton Quay	96	Unit M	Wellington	6011	New Zealand
4	1001	Khreshchatyk	308	Unit B	Kiev	11001	Ukraine
5	13	Gran Via	8	Unit C	Madrid	28013	Spain
6	1273	Avenida da Liberdade	87	Unit D	Lisbon	1250-096	Portugal
7	8924	Taft Avenue	64	Unit A	Manila	1200	Philippines

7 rows returned in 0.00 seconds CSV Export

5. Supervisor_DOB

- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 10, 12, 1975);
- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 12, 10, 1981);
- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 19, 8, 1979);
- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 20, 12, 1995);
- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 1, 8, 1998);
- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 9, 1, 1987);
- INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 10, 5, 1978);

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```

INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 10, 12, 1975);
INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 12, 10, 1981);
INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 19, 8, 1979);
INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 20, 12, 1995);
INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 1, 8, 1998);
INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 9, 1, 1987);
INSERT INTO Supervisor_DOB (ID, DAY, MONTH, YEAR)
VALUES (Supervisor_DOB_ID.NEXTVAL, 10, 5, 1978);

```

```
SELECT * FROM Supervisor_DOB;
```

Results Explain Describe Saved SQL History

ID	DAY	MONTH	YEAR
1	10	12	1975
2	12	10	1981
3	19	8	1979
4	20	12	1995
5	1	8	1998
6	9	1	1987
7	10	5	1978

7 rows returned in 0.00 seconds

[CSV Export](#)

6. Supervisor_Address

- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 789, 'Gulsan', 20, 'Unit C', 'Dhaka', '1214', 'Bangladesh');
- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 78, 'Baker Street', 23, 'Unit A', 'London', 'NW16XE', 'UK');
- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 89, 'Pennsylvania Avenue', 71, 'Unit D', 'Washington D.C', '20500', 'USA');
- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 789, 'Bärenggraben', 20, 'Unit C', 'Bern', '3011', 'Switzerland');
- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 789, 'Drottninggatan', 20, 'Unit B', 'Stockholm', '14', 'Sweden');
- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 7, 'Nowy Świat', 20, 'Unit A', 'Warsaw', '00-001', 'Poland');
- INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)

VALUES (Supervisor_Address_ID.NEXTVAL, 78, 'Prinsengracht', 20, 'Unit C', 'Amsterdam', '14', 'Netherlands');

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```

INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 789, 'Gulsan', 20, 'Unit C', 'Dhaka', '1214', 'Bangladesh');
INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 78, 'Baker Street', 23, 'Unit A', 'London', 'NW16XE', 'UK');
INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 89, 'Pennsylvania Avenue', 71, 'Unit D', 'Washington D.C', '20500', 'USA');
INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 789, 'Bärengården', 20, 'Unit C', 'Bern', '3011', 'Switzerland');
INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 789, 'Drottninggatan', 20, 'Unit B', 'Stockholm', '14', 'Sweden');
INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 7, 'Nowy Swiat', 20, 'Unit A', 'Warsaw', '00-001', 'Poland');
INSERT INTO Supervisor_Address (ID, STREET_NUM, STREET_NAME, APARTMENT_NUM, APARTMENT_NAME, CITY, ZIP_CODE, COUNTRY)
VALUES (Supervisor_Address_ID.NEXTVAL, 78, 'Prinsengracht', 20, 'Unit C', 'Amsterdam', '14', 'Netherlands');

SELECT * FROM Supervisor_Address;

```

Results Explain Describe Saved SQL History

ID	STREET_NUM	STREET_NAME	APARTMENT_NUM	APARTMENT_NAME	CITY	ZIP_CODE	COUNTRY
1	789	Gulsan	20	Unit C	Dhaka	1214	Bangladesh
2	78	Baker Street	23	Unit A	London	NW16XE	UK
3	89	Pennsylvania Avenue	71	Unit D	Washington D.C	20500	USA
4	789	Bärengården	20	Unit C	Bern	3011	Switzerland
5	789	Drottninggatan	20	Unit B	Stockholm	14	Sweden
6	7	Nowy Swiat	20	Unit A	Warsaw	00-001	Poland
7	78	Prinsengracht	20	Unit C	Amsterdam	14	Netherlands

7 rows returned in 0.00 seconds [CSV Export](#)

7. Company_Address

- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Unter den Linden', 'Berlin', 'Germany');
- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 8, 'Königstraße', 'Stuttgart', 'Germany');
- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 2, 'Königsallee', 'Düsseldorf', 'Germany');
- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 88, 'Spring Garden Road', 'Halifax, NS', 'Canada');
- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Buchanan Street', 'Glasgow', 'UK');
- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Northumberland', 'Newcastle', 'UK');
- INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Camelback Road', 'Phoenix, AZ', 'US');

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```

INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Unter den Linden', 'Berlin', 'Germany');
INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 8, 'Königstraße', 'Stuttgart', 'Germany');
INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 2, 'Königsallee', 'Düsseldorf', 'Germany');
INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 88, 'Spring Garden Road', 'Halifax, NS', 'Canada');
INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Buchanan Street', 'Glasgow', 'UK');
INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Northumberland', 'Newcastle', 'UK');
INSERT INTO Company_Address (ID, STREET_NUM, STREET_NAME, CITY, COUNTRY)
VALUES (Company_Address_ID.NEXTVAL, 82, 'Camelback Road', 'Phoenix, AZ', 'US');

SELECT * FROM Company_Address;

```

Results Explain Describe Saved SQL History

ID	STREET_NUM	STREET_NAME	CITY	COUNTRY
1	82	Unter den Linden	Berlin	Germany
2	8	Königstraße	Stuttgart	Germany
3	2	Königsallee	Düsseldorf	Germany
4	88	Spring Garden Road	Halifax, NS	Canada
5	82	Buchanan Street	Glasgow	UK
6	82	Northumberland	Newcastle	UK
7	82	Camelback Road	Phoenix, AZ	US

7 rows returned in 0.00 seconds

[CSV Export](#)

8. Company_Info

- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'Flixbus',
Company_Address_ID_fk1.NEXTVAL);
- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'RegioJet',
Company_Address_ID_fk1.NEXTVAL);
- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'IC Bus',
Company_Address_ID_fk1.NEXTVAL);
- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'DRL Coachlines',
Company_Address_ID_fk1.NEXTVAL);
- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'Translink',
Company_Address_ID_fk1.NEXTVAL);
- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'BoltBus',
Company_Address_ID_fk1.NEXTVAL);
- INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'Stagecoach Bus',
Company_Address_ID_fk1.NEXTVAL);

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```
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'Flixbus', Company_Address_ID_fk1.NEXTVAL);
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'RegioJet', Company_Address_ID_fk1.NEXTVAL);
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'IC Bus', Company_Address_ID_fk1.NEXTVAL);
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'DRL Coachlines', Company_Address_ID_fk1.NEXTVAL);
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'Translink', Company_Address_ID_fk1.NEXTVAL);
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'BoltBus', Company_Address_ID_fk1.NEXTVAL);
INSERT INTO Company_Info (ID, NAME, Comapnay_Address_ID)
VALUES (Company_Info_ID.NEXTVAL, 'Stagecoach Bus', Company_Address_ID_fk1.NEXTVAL);
```

SELECT * FROM Company_Info;

Results Explain Describe Saved SQL History

ID	NAME	COMAPNAY_ADDRESS_ID
1	Flixbus	1
2	RegioJet	2
3	IC Bus	3
4	DRL Coachlines	4
5	Translink	5
6	BoltBus	6
7	Stagecoach Bus	7

7 rows returned in 0.00 seconds [CSV Export](#)

9. Schedule

- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 05:30:00', 'Munich');
- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 05:45:00', 'Cologne');
- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:00:00', 'Leipzig');
- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:10:00', 'Toronto, ON');
- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:30:00', 'Bristol');
- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:45:00', 'Liverpool');
- INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 07:15:00', 'Miami');

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```
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 05:30:00', 'Munich');
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 05:45:00', 'Cologne');
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:00:00', 'Leipzig');
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:10:00', 'Toronto, ON');
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:30:00', 'Bristol');
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 06:45:00', 'Liverpool');
INSERT INTO Schedule (ID, DEPARTURE_TIME, DESTINATION)
VALUES (Schedule_ID.NEXTVAL, '04-MAY-2023 07:15:00', 'Miami');
```

SELECT * FROM Schedule;

Results Explain Describe Saved SQL History

ID	DEPARTURE_TIME	DESTINATION
1	04-MAY-23 05.30.00.000000 AM	Munich
2	04-MAY-23 05.45.00.000000 AM	Cologne
3	04-MAY-23 06.00.00.000000 AM	Leipzig
4	04-MAY-23 06.10.00.000000 AM	Toronto, ON
5	04-MAY-23 06.30.00.000000 AM	Bristol
6	04-MAY-23 06.45.00.000000 AM	Liverpool
7	04-MAY-23 07.15.00.000000 AM	Miami

7 rows returned in 0.02 seconds

[CSV Export](#)

10. Bus_Info

- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID) VALUES (1001, 'Berlin-Munich', 57, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID) VALUES (1002, 'Stuttgart-Cologne', 55, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID) VALUES (1003, 'Düsseldor-Leipzig', 55, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID) VALUES (1004, 'Halifax, NS-Toronto, ON', 102, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID) VALUES (1005, 'Bristol-Glasgow', 52, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)

```
VALUES (1006, 'Liverpool-Newcastle', 52, Schedule_ID_fk1.NEXTVAL,
Company_Info_ID_fk1.NEXTVAL);
```

- INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1007, 'New York City, NY-Miami, FL', 52, Schedule_ID_fk1.NEXTVAL,
Company_Info_ID_fk1.NEXTVAL);

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```
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1001, 'Berlin-Munich', 57, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1002, 'Stuttgart-Cologne', 55, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1003, 'Düsseldorf-Leipzig', 55, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1004, 'Halifax, NS-Toronto, ON', 102, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1005, 'Bristol-Glasgow', 52, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1006, 'Liverpool-Newcastle', 52, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);
INSERT INTO Bus_Info (BUS_NUM, ROUTE, CAPACITY, Schedule_ID, Compnay_ID)
VALUES (1007, 'New York City, NY-Miami, FL', 52, Schedule_ID_fk1.NEXTVAL, Company_Info_ID_fk1.NEXTVAL);

SELECT * FROM Bus_Info;
```

Results Explain Describe Saved SQL History

BUS_NUM	ROUTE	CAPACITY	SCHEDULE_ID	COMPNAV_ID
1001	Berlin-Munich	57	1	1
1002	Stuttgart-Cologne	55	2	2
1003	Düsseldorf-Leipzig	55	3	3
1004	Halifax, NS-Toronto, ON	102	4	4
1005	Bristol-Glasgow	52	5	5
1006	Liverpool-Newcastle	52	6	6
1007	New York City, NY-Miami, FL	52	7	7

7 rows returned in 0.02 seconds [CSV Export](#)

11. Driver_Info

- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Nazmul Hasan Pappon', '01827-9068', NULL, 1001, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Sakib Al Hasan', '01719-2879', '01913-590267', 1002, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Tamim Iqbal', '01618-2778', NULL, 1003, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Mashrafi Bin Mortaza', '01787-2589', NULL, 1004, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);

- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Lional Messi', '01998-2281', NULL, 1005, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Cristiano Ronaldo', '01428-9182', NULL, 1006, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
- INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Karim Benzema', '01327-8738', NULL, 1007, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);

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```
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Nazmul Hasan Pappon', '01827-9068', NULL, 1001, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Sakib Al Hasan', '01719-2879', '01913-590267', 1002, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Tamim Iqbal', '01618-2778', NULL, 1003, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Mashrafi Bin Mortaza', '01787-2589', NULL, 1004, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Lional Messi', '01998-2281', NULL, 1005, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Cristiano Ronaldo', '01428-9182', NULL, 1006, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
INSERT INTO Driver_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Driver_DOB_ID, Driver_Address_ID)
VALUES (Driver_Info_ID.NEXTVAL, 'Karim Benzema', '01327-8738', NULL, 1007, Driver_DOB_ID_fk1.NEXTVAL, Driver_Address_ID_fk1.NEXTVAL);
```

SELECT * FROM Driver_Info;

Results Explain Describe Saved SQL History

ID	NAME	PHN_NUM1	PHN_NUM2	BUS_NUM	DRIVER_DOB_ID	DRIVER_ADDRESS_ID
1	Nazmul Hasan Pappon	01827-9068	-	1001	1	1
2	Sakib Al Hasan	01719-2879	01913-590267	1002	2	2
3	Tamim Iqbal	01618-2778	-	1003	3	3
4	Mashrafi Bin Mortaza	01787-2589	-	1004	4	4
5	Lional Messi	01998-2281	-	1005	5	5
6	Cristiano Ronaldo	01428-9182	-	1006	6	6
7	Karim Benzema	01327-8738	-	1007	7	7

7 rows returned in 0.00 seconds

[CSV Export](#)

12. Conductor_Info

- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Bes Stocks', '01845-85042', NULL, 1001, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Sachin Tendulkar', '01827-871427', NULL, 1002, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Jasprit Bumrah', '01421-87578', NULL, 1003, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)

- VALUES (Conductor_Info_ID.NEXTVAL, 'AB de Villiers', '01989-27178', NULL, 1004, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Faf du Plessis', '01492-12878', NULL, 1005, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Andre Russell', '01721-78262', NULL, 1006, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
- INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Sunil Narine', '01421-87578', NULL, 1007, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);

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```
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Bes Stocks', '01845-85042', NULL, 1001, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Sachin Tendulkar', '01827-871427', NULL, 1002, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Jasprit Bumrah', '01421-87578', NULL, 1003, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'AB de Villiers', '01989-27178', NULL, 1004, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Faf du Plessis', '01492-12878', NULL, 1005, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Andre Russell', '01721-78262', NULL, 1006, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
INSERT INTO Conductor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, BUS_NUM, Conductor_DOB_ID, Conductor_Address_ID)
VALUES (Conductor_Info_ID.NEXTVAL, 'Sunil Narine', '01421-87578', NULL, 1007, Conductor_DOB_ID_fk1.NEXTVAL, Conductor_Address_ID_fk1.NEXTVAL);
```

SELECT * FROM Conductor_Info;

Results Explain Describe Saved SQL History

ID	NAME	PHN_NUM1	PHN_NUM2	BUS_NUM	CONDUCTOR_DOB_ID	CONDUCTOR_ADDRESS_ID
1	Bes Stocks	01845-85042	-	1001	1	1
2	Sachin Tendulkar	01827-871427	-	1002	2	2
3	Jasprit Bumrah	01421-87578	-	1003	3	3
4	AB de Villiers	01989-27178	-	1004	4	4
5	Faf du Plessis	01492-12878	-	1005	5	5
6	Andre Russell	01721-78262	-	1006	6	6
7	Sunil Narine	01421-87578	-	1007	7	7

7 rows returned in 0.02 seconds [CSV Export](#)

13. Passenger_Info

- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Soumya Sarkar', '01337-6127', NULL, 2, 1001);
- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Mustafizur Rahman', '01438-21487', '01846-792402', 2, 1007);
- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Aron Finch', '0161-27367', NULL, 5, 1004);
- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Ricaadison', '0183-56879', NULL, 3, 1005);
- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)

- VALUES (Passenger_Info_ID.NEXTVAL, 'Hero Alom', '0157-87261', NULL, 1, 1002);
- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number) VALUES (Passenger_Info_ID.NEXTVAL, 'Ananta Zalil', '0149-87236', '01791-870483', 1, 1006);
- INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number) VALUES (Passenger_Info_ID.NEXTVAL, 'Salman Muktadir', '0193-54768', NULL, 5, 1003);

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```
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Soumya Sarkar', '01337-6127', NULL, 2, 1001);
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Mustafizur Rahman', '01438-21487', '01846-792402', 2, 1007);
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Aron Finch', '0161-27367', NULL, 5, 1004);
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Ricadision', '0183-56879', NULL, 3, 1005);
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Hero Alom', '0157-87261', NULL, 1, 1002);
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Ananta Zalil', '0149-87236', '01791-870483', 1, 1006);
INSERT INTO Passenger_Info (ID, NAME, PHN_NUM1, PHN_NUM2, NUM_OF_SEATS, Bus_Number)
VALUES (Passenger_Info_ID.NEXTVAL, 'Salman Muktadir', '0193-54768', NULL, 5, 1003);
```

[SELECT * FROM Passenger_Info;](#)

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

ID	NAME	PHN_NUM1	PHN_NUM2	NUM_OF_SEATS	BUS_NUMBER
1	Soumya Sarkar	01337-6127	-	2	1001
2	Mustafizur Rahman	01438-21487	01846-792402	2	1007
3	Aron Finch	0161-27367	-	5	1004
4	Ricadision	0183-56879	-	3	1005
5	Hero Alom	0157-87261	-	1	1002
6	Ananta Zalil	0149-87236	01791-870483	1	1006
7	Salman Muktadir	0193-54768	-	5	1003

7 rows returned in 0.00 seconds

[CSV Export](#)

14. Payment

- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID) VALUES (Pay_Info_ID.NEXTVAL, 'Card', 1050.00, Passenger_Info_ID_fk1.NEXTVAL);
- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID) VALUES (Pay_Info_ID.NEXTVAL, 'Card', 1050.00, Passenger_Info_ID_fk1.NEXTVAL);
- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID) VALUES (Pay_Info_ID.NEXTVAL, 'Cash', 3800.00, Passenger_Info_ID_fk1.NEXTVAL);
- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID) VALUES (Pay_Info_ID.NEXTVAL, 'Card', 1500.00, Passenger_Info_ID_fk1.NEXTVAL);
- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID) VALUES (Pay_Info_ID.NEXTVAL, 'Nagad', 750.00, Passenger_Info_ID_fk1.NEXTVAL);
- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID) VALUES (Pay_Info_ID.NEXTVAL, 'Bikash', 480.00, Passenger_Info_ID_fk1.NEXTVAL);
- INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)

```
VALUES (Pay_Info_ID.NEXTVAL, 'Nagad', 4050.00, Passenger_Info_ID_fk1.NEXTVAL);
```

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```
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Card', 1050.00, Passenger_Info_ID_fk1.NEXTVAL);
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Card', 1050.00, Passenger_Info_ID_fk1.NEXTVAL);
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Cash', 3800.00, Passenger_Info_ID_fk1.NEXTVAL);
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Card', 1500.00, Passenger_Info_ID_fk1.NEXTVAL);
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Nagad', 750.00, Passenger_Info_ID_fk1.NEXTVAL);
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Bikash', 480.00, Passenger_Info_ID_fk1.NEXTVAL);
INSERT INTO Payment (PAY_ID, METHOD, TOTAL_PRICE, Passenger_ID)
VALUES (Pay_Info_ID.NEXTVAL, 'Nagad', 4050.00, Passenger_Info_ID_fk1.NEXTVAL);
```

SELECT * FROM Payment;

Results Explain Describe Saved SQL History

PAY_ID	METHOD	TOTAL_PRICE	PASSENGER_ID
1	Card	1050	1
2	Card	1050	2
3	Cash	3800	3
4	Card	1500	4
5	Nagad	750	5
6	Bikash	480	6
7	Nagad	4050	7

7 rows returned in 0.00 seconds

[CSV Export](#)

15. Ticket

- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)

VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-05-10', 'yyyy-mm-dd'), 1050.00, 'A1, A2',

Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'),

Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)

VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-07-15', 'yyyy-mm-dd'), 1050.00, 'D3, D4',

Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'),

Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)

- VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-06-11', 'yyyy-mm-dd'), 3800.00, 'B1, B2, B3, B4, C1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
 - VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-10-21', 'yyyy-mm-dd'), 1500.00, 'D1, D2, D3', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-10-21', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
 - VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-05-10', 'yyyy-mm-dd'), 750.00, 'A1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
 - VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-05-11', 'yyyy-mm-dd'), 480.00, 'A1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
- INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
 - VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-01-06', 'yyyy-mm-dd'), 450.00, 'A1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-01-06', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);

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INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-06-11', 'yyyy-mm-dd'), 3800.00, 'B1, B2, B3, B4, C1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-10-21', 'yyyy-mm-dd'), 1500.00, 'D1, D2, D3', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-10-21', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-05-10', 'yyyy-mm-dd'), 750.00, 'A1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-05-11', 'yyyy-mm-dd'), 480.00, 'A1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-05-05', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
INSERT INTO Ticket (NUM, Ticket_DATE, PRICE, SEAT_NUMBER, ID, Reservation_DATE, Conductor_ID, Passenger_ID)
VALUES (Ticket_ID.NEXTVAL, TO_DATE('2023-01-06', 'yyyy-mm-dd'), 450.00, 'A1', Reservation_Info_ID.NEXTVAL, TO_DATE('2023-01-06', 'yyyy-mm-dd'), Conductor_Info_ID_fk1.NEXTVAL, Passenger_Info_ID_fk2.NEXTVAL);
SELECT * FROM Ticket;
  
```

Results Explain Describe Saved SQL History

NUM	Ticket_DATE	PRICE	SEAT_NUMBER	ID	RESERVATION_DATE	CONDUCTOR_ID	PASSENGER_ID
1	10-MAY-23	1050	A1, A2	11	05-MAY-23	1	1
2	15-JUN-23	1050	D3, D4	12	05-MAY-23	2	2
3	11-JUN-23	3800	B1, B2, B3, B4, C1	13	05-MAY-23	3	3
4	21-OCT-23	1500	D1, D2, D3	14	21-OCT-23	4	4
5	10-MAY-23	750	A1	15	05-MAY-23	5	5
6	11-MAY-23	480	A1	16	05-MAY-23	6	6
7	05-JAN-23	450	A1	17	05-JAN-23	7	7

7 rows returned in 0.00 seconds CSV Export

16. Supervisor_Info

- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
 - VALUES (Supervisor_Info_ID.NEXTVAL, 'Virat Kohli', '01885-89282', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1005);
- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
 - VALUES (Supervisor_Info_ID.NEXTVAL, 'Anuska Sharma', '01885-89283', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1001);
- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)

- VALUES (Supervisor_Info_ID.NEXTVAL, 'Stven Smith', '01597-590468', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1007);
- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
 - VALUES (Supervisor_Info_ID.NEXTVAL, 'Mahmudullah Riyed', '01348-790515', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1006);
- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
 - VALUES (Supervisor_Info_ID.NEXTVAL, 'Musfiqur Rahim', '01459-70468', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1003);
- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
 - VALUES (Supervisor_Info_ID.NEXTVAL, 'George W. Bush', '01374-802744', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1002);
- INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
 - VALUES (Supervisor_Info_ID.NEXTVAL, 'D. Tramp', '01782-898657', '01795-790561', Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1004);

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```
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'Vinat Kholi', '01885-89282', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1005);
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'Anuska Sharma', '01885-89283', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1001);
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'Stven Smith', '01597-590468', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1007);
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'Mahmudullah Riyed', '01348-790515', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1006);
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'Musfiqur Rahim', '01459-70468', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1003);
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'George W. Bush', '01374-802744', NULL, Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1002);
INSERT INTO Supervisor_Info (ID, NAME, PHN_NUM1, PHN_NUM2, Supervisor_DOB_ID, Supervisor_Address_ID, Bus_Number)
VALUES (Supervisor_Info_ID.NEXTVAL, 'D. Tramp', '01782-898657', '01795-790561', Supervisor_DOB_ID_fk1.NEXTVAL, Supervisor_Address_ID_fk1.NEXTVAL, 1004);
```

[SELECT * FROM Supervisor_Info;](#)

Results Explain Describe Saved SQL History

ID	NAME	PHN_NUM1	PHN_NUM2	SUPERVISOR_DOB_ID	SUPERVISOR_ADDRESS_ID	BUS_NUMBER
1	Vinat Kholi	01885-89282	-	1	1	1005
2	Anuska Sharma	01885-89283	-	2	2	1001
3	Stven Smith	01597-590468	-	3	3	1007
4	Mahmudullah Riyed	01348-790515	-	4	4	1006
5	Musfiqur Rahim	01459-70468	-	5	5	1003
6	George W. Bush	01374-802744	-	6	6	1002
7	D. Tramp	01782-898657	01795-790561	7	7	1004

7 rows returned in 0.00 seconds [CSV Export](#)

17. Employee_Info

- INSERT INTO Employee_Info (ID, NAME, TYPE)
 - VALUES (Employee_Info_ID.NEXTVAL, 'Elon Musk', 'MANAGER');
- INSERT INTO Employee_Info (ID, NAME, TYPE)
 - VALUES (Employee_Info_ID.NEXTVAL, 'Bil Gates', 'IT Officer');
- INSERT INTO Employee_Info (ID, NAME, TYPE)
 - VALUES (Employee_Info_ID.NEXTVAL, 'Rashid Khan', 'Junior Exicutive');
- INSERT INTO Employee_Info (ID, NAME, TYPE)
 - VALUES (Employee_Info_ID.NEXTVAL, 'Sabbir Rahman, Mark Zakarbag', 'Social Media Mannager');

- INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Obaidul Kader', 'District Manager');
- INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Joe Biden', 'District Head');
- INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Vladimir Vladimirovich Putin',
'Operation Engineer');

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```
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Elon Musk', 'MANAGER');
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Bill Gates', 'IT Officer');
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Rashid Khan', 'Junior Executive');
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Sabbir Rahman, Mark Zakarbarg', 'Social Media Mannager');
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Obaidul Kader', 'District Manager');
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Joe Biden', 'District Head');
INSERT INTO Employee_Info (ID, NAME, TYPE)
VALUES (Employee_Info_ID.NEXTVAL, 'Vladimir Vladimirovich Putin', 'Operation Engineer');

SELECT * FROM Employee_Info;
```

Results Explain Describe Saved SQL History

ID	NAME	TYPE
1	Elon Musk	MANAGER
2	Bill Gates	IT Officer
3	Rashid Khan	Junior Executive
4	Sabbir Rahman, Mark Zakarbarg	Social Media Mannager
5	Obaidul Kader	District Manager
6	Joe Biden	District Head
7	Vladimir Vladimirovich Putin	Operation Engineer

7 rows returned in 0.00 seconds

[CSV Export](#)

18. Company_Employee_Mapping

- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);
- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);
- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)

- VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);
- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);
- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);
- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);
- INSERT INTO Company_Employee_Mapping (Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL,
Employee_Info_ID_fk1.NEXTVAL);

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```
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
INSERT INTO Company_Employee_Mapping(Company_ID, Employee_ID)
VALUES (Company_Info_ID_fk2.NEXTVAL, Employee_Info_ID_fk1.NEXTVAL);
SELECT * FROM Company_Employee_Mapping;
```

Results Explain Describe Saved SQL History

COMPANY_ID	EMPLOYEE_ID
1	1
2	2
3	3
4	4
5	5
6	6
7	7

7 rows returned in 0.00 seconds

[CSV Export](#)

Query Writing:

1. Single-Row Function

- SELECT STREET_NUM||' '||STREET_NAME||', '||CITY||', '||COUNTRY AS Address
FROM Conductor_Address;

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Home > SQL > SQL Commands

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```
SELECT STREET_NUM || ' ' || STREET_NAME || ', ' || CITY || ', ' || COUNTRY AS Address
FROM Conductor.Address;
```

Results Explain Describe Saved SQL History

ADDRESS
456 Karlova Street, Prague, Czech Republic
12 Kuratoli Road, Dhaka, Bangladesh
45 Lambton Quay, Wellington, New Zealand
1001 Khreshchatyk, Kiev, Ukraine
13 Gran Via, Madrid, Spain
1273 Avenida da Liberdade, Lisbon, Portugal
8924 Taft Avenue, Manila, Philippines

7 rows returned in 0.00 seconds

[CSV Export](#)

- ii.

```
SELECT *
FROM Payment
ORDER BY Total_price DESC;
```

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Home > SQL > SQL Commands

☒ Autocommit Display 10

```
SELECT *
FROM Payment
ORDER BY Total_price DESC;
```

Results Explain Describe Saved SQL History

PAY_ID	METHOD	TOTAL_PRICE	PASSENGER_ID
7	Nagad	4050	7
3	Cash	3800	3
4	Card	1500	4
1	Card	1050	1
2	Card	1050	2
5	Nagad	750	5
6	Bikash	480	6

7 rows returned in 0.01 seconds

[CSV Export](#)

2. Group Function

- i.

```
SELECT METHOD, SUM(TOTAL_PRICE) AS "Total Amount"
FROM Payment
GROUP BY METHOD
```


ORDER BY "Total Amount" DESC;

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Home > SQL > **SQL Commands**

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```
SELECT METHOD, SUM(TOTAL PRICE) AS "Total Amount"
FROM Payment
GROUP BY METHOD
ORDER BY "Total Amount" DESC;
```

Results Explain Describe Saved SQL History

METHOD	Total Amount
Nagad	4800
Cash	3800
Card	3600
Bikash	480

4 rows returned in 0.00 seconds [CSV Export](#)

- ii. SELECT Passenger_ID, COUNT(*) AS Total_Tickets, SUM(TOTAL_PRICE) AS Total_Payments
FROM Payment
GROUP BY Passenger_ID
HAVING SUM(TOTAL_PRICE) > 1000;

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User: SYSTEM

Home > SQL > **SQL Commands**

☒ Autocommit Display 10

```
SELECT Passenger_ID, COUNT(*) AS Total Tickets, SUM(TOTAL PRICE) AS Total Payments
FROM Payment
GROUP BY Passenger_ID
HAVING SUM(TOTAL PRICE) > 1000;
```

Results Explain Describe Saved SQL History

PASSENGER_ID	TOTAL_TICKETS	TOTAL_PAYMENTS
1	1	1050
2	1	1050
4	1	1500
3	1	3800
7	1	4050

5 rows returned in 0.00 seconds [CSV Export](#)

3. Sub Query

- i. SELECT ID, NAME, PHN_NUM1 AS "PHONE NUMBER",
(SELECT TO_CHAR(TO_DATE(MONTH||'/'||DAY||'/'||YEAR,'MM/DD/YYYY'),'Month DD, YYYY')
FROM Conductor_DOB
WHERE Conductor_DOB.ID = Conductor_Info.Conductor_DOB_ID) AS DOB,

```
(SELECT STREET_NUM||' '||STREET_NAME||', '||CITY||', '||COUNTRY
FROM Conductor_Address
WHERE Conductor_Address.ID = Conductor_Info.Conductor_Address_ID) AS ADDRESS
FROM Conductor_Info;
```

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```
SELECT ID, NAME, PHN_NUM1 AS "PHONE NUMBER",
       (SELECT TO_CHAR(TO_DATE(MONTH||'/'||DAY||'/'||YEAR, 'MM/DD/YYYY'), 'Month DD, YYYY')
        FROM Conductor_DOB
        WHERE Conductor_DOB.ID = Conductor_Info.Conductor_DOB_ID) AS DOB,
       (SELECT STREET_NUM||' '||STREET_NAME||', '||CITY||', '||COUNTRY
        FROM Conductor_Address
        WHERE Conductor_Address.ID = Conductor_Info.Conductor_Address_ID) AS ADDRESS
FROM Conductor_Info;
```

Results Explain Describe Saved SQL History

ID	NAME	PHONE NUMBER	DOB	ADDRESS
1	Bes Stocks	01845-85042	September 24, 1990	456 Karlova Street, Prague, Czech Republic
2	Sachin Tendulkar	01827-871427	October 12, 1991	12 Kuratoli Road, Dhaka, Bangladesh
3	Jasprit Bumrah	01421-87578	May 27, 1993	45 Lambton Quay, Wellington, New Zealand
4	AB de Villiers	01989-27178	February 04, 1988	1001 Khreshchatyk, Kiev, Ukraine
5	Faf du Plessis	01492-12878	March 20, 1994	13 Gran Via, Madrid, Spain
6	Andre Russell	01721-78262	August 25, 1991	1273 Avenida da Liberdade, Lisbon, Portugal
7	Sunil Narine	01421-87578	December 24, 1988	8924 Taft Avenue, Manila, Philippines

7 rows returned in 0.03 seconds [CSV Export](#)

- ii. SELECT Employee_Info.ID, Employee_Info.NAME, Employee_Info.TYPE
FROM Employee_Info
WHERE Employee_Info.ID IN
(SELECT Company_Employee_Mapping.Employee_ID
FROM Company_Employee_Mapping, Company_Info
WHERE Company_Employee_Mapping.Company_ID = Company_Info.ID
AND Company_Info.NAME != 'DRL Coachlines');

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☒ Autocommit Display 10

```
SELECT Employee_Info.ID, Employee_Info.NAME, Employee_Info.TYPE
FROM Employee_Info
WHERE Employee_Info.ID IN
(SELECT Company_Employee_Mapping.Employee_ID
FROM Company_Employee_Mapping, Company_Info
WHERE Company_Employee_Mapping.Company_ID = Company_Info.ID
AND Company_Info.NAME != 'DRL Coachlines');
```

Results Explain Describe Saved SQL History

ID	NAME	TYPE
1	Elon Musk	MANAGER
2	Bill Gates	IT Officer
3	Rashid Khan	Junior Executive
5	Obaidul Kader	District Manager
6	Joe Biden	District Head
7	Vladimir Vladimirovich Putin	Operation Engineer

6 rows returned in 0.03 seconds [CSV Export](#)

4. Joining

- i. SELECT D1.NAME, D1.PHN_NUM1, D2.CITY, D2.COUNTRY
FROM Driver_Info D1, Driver_Address D2
WHERE D1.Driver_Address_ID = D2.ID;

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☒ Autocommit Display 10 ▼

```
SELECT D1.NAME, D1.PHN_NUM1, D2.CITY, D2.COUNTRY  
FROM Driver_Info D1, Driver_Address D2  
WHERE D1.Driver_Address_ID = D2.ID;
```

Results Explain Describe Saved SQL History

NAME	PHN_NUM1	CITY	COUNTRY
Nazmul Hasan Pappon	01827-9068	Dhaka	Bangladesh
Sakib Al Hasan	01719-2879	Buenos Aires	Argentina
Tamim Iqbal	01618-2778	Brasília	Brazil
Mashrafi Bin Mortaza	01787-2589	Santiago	Chile
Lional Messi	01998-2281	Lima	Peru
Cristiano Ronaldo	01428-9182	Seoul	South Korea
Karim Benzema	01327-8738	Salerno	Italy

7 rows returned in 0.00 seconds

[CSV Export](#)

- ii.

```
SELECT C1.NAME, C1.PHN_NUM1, C2.CITY, C2.COUNTRY  
FROM Conductor_Info C1, Conductor_Address C2  
WHERE C1.Conductor_Address_ID = C2.ID;
```

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User: SYSTEM

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☒ Autocommit Display ▼

```
SELECT C1.NAME, C1.PHN_NUM1, C2.CITY, C2.COUNTRY  
FROM Conductor_Info C1, Conductor_Address C2  
WHERE C1.Conductor_Address_ID = C2.ID;
```

Results Explain Describe Saved SQL History

NAME	PHN_NUM1	CITY	COUNTRY
Bes Stocks	01845-85042	Prague	Czech Republic
Sachin Tendulkar	01827-871427	Dhaka	Bangladesh
Jasprit Bumrah	01421-87578	Wellington	New Zealand
AB de Villiers	01989-27178	Kiev	Ukraine
Faf du Plessis	01492-12878	Madrid	Spain
Andre Russell	01721-78262	Lisbon	Portugal
Sunil Narine	01421-87578	Manila	Philippines

7 rows returned in 0.01 seconds

[CSV Export](#)

- iii. SELECT S1.NAME, S1.PHN_NUM1, S2.CITY, S2.COUNTRY
 FROM Supervisor_Info S1, Supervisor_Address S2

WHERE S1.Supervisor_Address_ID = S2.ID;

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☒ Autocommit Display 10 ▼

```
SELECT S1.NAME, S1.PHN_NUM1, S2.CITY, S2.COUNTRY  
FROM Supervisor_Info S1, Supervisor_Address S2  
WHERE S1.Supervisor_Address_ID = S2.ID;
```

Results Explain Describe Saved SQL History

NAME	PHN_NUM1	CITY	COUNTRY
Virat Kohli	01885-89282	Dhaka	Bangladesh
Anuska Sharma	01885-89283	London	UK
Stven Smith	01597-590468	Washington D.C	USA
Mahmudullah Riyed	01348-790515	Bern	Switzerland
Musfiqur Rahim	01459-70468	Stockholm	Sweden
George W. Bush	01374-802744	Warsaw	Poland
D. Tramp	01782-898657	Amsterdam	Netherlands

7 rows returned in 0.00 seconds [CSV Export](#)

5. View

i. CREATE VIEW Driver_Information AS

```

SELECT Driver_Info.NAME, Driver_Info.PHN_NUM1, Driver_Info.PHN_NUM2, Driver_DOB.DAY,
Driver_DOB.MONTH, Driver_DOB.YEAR, Driver_Address.STREET_NUM,
Driver_Address.STREET_NAME, Driver_Address.APARTMENT_NUM,
Driver_Address.APARTMENT_NAME, Driver_Address.CITY, Driver_Address.COUNTRY,
Driver_Address.ZIP_CODE
FROM Driver_Info, Driver_DOB, Driver_Address
WHERE Driver_Info.Driver_DOB_ID = Driver_DOB.ID
AND Driver_Info.Driver_Address_ID = Driver_Address.ID;

```

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☒ Autocommit Display 10

```

CREATE VIEW Driver_Information AS
SELECT Driver_Info.NAME, Driver_Info.PHN_NUM1, Driver_Info.PHN_NUM2, Driver_DOB.DAY, Driver_DOB.MONTH, Driver_DOB.YEAR, Driver_Address.STREET_NUM, Driver_Address.STREET_NAME,
Driver_Address.APARTMENT_NUM, Driver_Address.APARTMENT_NAME, Driver_Address.CITY, Driver_Address.COUNTRY, Driver_Address.ZIP_CODE
FROM Driver_Info, Driver_DOB, Driver_Address
WHERE Driver_Info.Driver_DOB_ID = Driver_DOB.ID
AND Driver_Info.Driver_Address_ID = Driver_Address.ID;

SELECT * FROM Driver_Information;

```

Results Explain Describe Saved SQL History

NAME	PHN_NUM1	PHN_NUM2	DAY	MONTH	YEAR	STREET_NUM	STREET_NAME	APARTMENT_NUM	APARTMENT_NAME	CITY	COUNTRY	ZIP_CODE
Nazmul Hasan Pappan	01827-9068	-	1	1	1980	135	Mirpur Stadium	67	Atwood Apartments	Dhaka	Bangladesh	1200
Sakib Al Hasan	01719-2879	01913-590267	12	6	1980	1234	Calle de la Paloma	17	Penthouse Apartments	Buenos Aires	Argentina	1414
Tamim Iqbal	01618-2778	-	18	3	1982	7000	Avenida das Rosas	10	Garden apartments	Brasilia	Brazil	049
Mashrafi Bin Mortaza	01787-2589	-	9	2	1987	8320	Avenida del Sol	20	Gated communities	Santiago	Chile	K1A
Lionel Messi	01998-2281	-	10	12	1985	120	Malecón de la Reserva	40	Walk-up apartments	Lima	Peru	15074
Cristiano Ronaldo	01428-9182	-	28	2	1983	4	Myeong-dong	130	BHK apartment	Seoul	South Korea	0537
Karim Benzema	01327-8738	-	12	7	1978	4	Corso Vittorio Emanuele	130	Bungalovt	Salerno	Italy	0537

7 rows returned in 0.00 seconds [CSV Export](#)

- ii. CREATE VIEW Conductor_Information AS
- ```

SELECT Conductor_Info.NAME, Conductor_Info.PHN_NUM1, Conductor_Info.PHN_NUM2,
Conductor_DOB.DAY, Conductor_DOB.MONTH, Conductor_DOB.YEAR,

```

```

Conductor_Address.STREET_NUM, Conductor_Address.STREET_NAME,
Conductor_Address.APARTMENT_NUM, Conductor_Address.APARTMENT_NAME,
Conductor_Address.CITY, Conductor_Address.COUNTRY, Conductor_Address.ZIP_CODE
FROM Conductor_Info, Conductor_DOB, Conductor_Address
WHERE Conductor_Info.Conductor_DOB_ID = Conductor_DOB.ID
AND Conductor_Info.Conductor_Address_ID = Conductor_Address.ID;

```

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```

CREATE VIEW Conductor_Information AS
SELECT Conductor_Info.NAME, Conductor_Info.PHN_NUM1, Conductor_Info.PHN_NUM2, Conductor_DOB.DAY, Conductor_DOB.MONTH, Conductor_DOB.YEAR,
Conductor_Address.STREET_NUM, Conductor_Address.STREET_NAME, Conductor_Address.APARTMENT_NUM, Conductor_Address.APARTMENT_NAME, Conductor_Address.CITY, Conductor_Address.COUNTRY,
Conductor_Address.ZIP_CODE
FROM Conductor_Info, Conductor_DOB, Conductor_Address
WHERE Conductor_Info.Conductor_DOB_ID = Conductor_DOB.ID
AND Conductor_Info.Conductor_Address_ID = Conductor_Address.ID;

SELECT * from Conductor_Information;

```

Results Explain Describe Saved SQL History

| NAME             | PHN_NUM1     | PHN_NUM2 | DAY | MONTH | YEAR | STREET_NUM | STREET_NAME          | APARTMENT_NUM | APARTMENT_NAME | CITY       | COUNTRY        | ZIP_CODE |
|------------------|--------------|----------|-----|-------|------|------------|----------------------|---------------|----------------|------------|----------------|----------|
| Bes Sticks       | 01845-85042  | -        | 24  | 9     | 1990 | 456        | Karlova Street       | 32            | Unit B         | Prague     | Czech Republic | 110 00   |
| Sachin Tendulkar | 01827-871427 | -        | 12  | 10    | 1991 | 12         | Kurattoli Road       | 3             | Unit 2         | Dhaka      | Bangladesh     | 1229     |
| Jasprit Bumrah   | 01421-87578  | -        | 27  | 5     | 1993 | 45         | Lambton Quay         | 96            | Unit M         | Wellington | New Zealand    | 6011     |
| AB de Villiers   | 01989-27178  | -        | 4   | 2     | 1988 | 1001       | Khreshchatyk         | 308           | Unit B         | Kiev       | Ukraine        | 11001    |
| Faf du Plessis   | 01492-12878  | -        | 20  | 3     | 1994 | 13         | Gran Via             | 8             | Unit C         | Madrid     | Spain          | 28013    |
| Andre Russell    | 01721-78262  | -        | 25  | 8     | 1991 | 1273       | Avenida da Liberdade | 87            | Unit D         | Lisbon     | Portugal       | 1250-096 |
| Sunil Narine     | 01421-87578  | -        | 24  | 12    | 1988 | 8924       | Taft Avenue          | 64            | Unit A         | Manila     | Philippines    | 1200     |

7 rows returned in 0.02 seconds

[CSV Export](#)

### iii. CREATE VIEW Supervisor\_Information AS

```

SELECT Supervisor_Info.NAME, Supervisor_Info.PHN_NUM1, Supervisor_Info.PHN_NUM2,
Supervisor_DOB.DAY, Supervisor_DOB.MONTH, Supervisor_DOB.YEAR,

```

```

Supervisor_Address.STREET_NUM, Supervisor_Address.STREET_NAME,
Supervisor_Address.APARTMENT_NUM, Supervisor_Address.APARTMENT_NAME,
Supervisor_Address.CITY, Supervisor_Address.COUNTRY, Supervisor_Address.ZIP_CODE
FROM Supervisor_Info, Supervisor_DOB, Supervisor_Address
WHERE Supervisor_Info.Supervisor_DOB_ID = Supervisor_DOB.ID
AND Supervisor_Info.Supervisor_Address_ID = Supervisor_Address.ID;

```

ORACLE Database Express Edition

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```

CREATE VIEW Supervisor_Information AS
SELECT Supervisor_Info.NAME, Supervisor_Info.PHN_NUM1, Supervisor_Info.PHN_NUM2, Supervisor_DOB.DAY, Supervisor_DOB.MONTH, Supervisor_DOB.YEAR,
Supervisor_Address.STREET_NUM, Supervisor_Address.STREET_NAME, Supervisor_Address.APARTMENT_NUM, Supervisor_Address.APARTMENT_NAME, Supervisor_Address.CITY, Supervisor_Address.COUNTRY,
Supervisor_Address.ZIP_CODE
FROM Supervisor_Info, Supervisor_DOB, Supervisor_Address
WHERE Supervisor_Info.Supervisor_DOB_ID = Supervisor_DOB.ID
AND Supervisor_Info.Supervisor_Address_ID = Supervisor_Address.ID;

SELECT * from Supervisor_Information;

```

Results Explain Describe Saved SQL History

| NAME              | PHN_NUM1     | PHN_NUM2     | DAY | MONTH | YEAR | STREET_NUM | STREET_NAME         | APARTMENT_NUM | APARTMENT_NAME | CITY           | COUNTRY     | ZIP_CODE |
|-------------------|--------------|--------------|-----|-------|------|------------|---------------------|---------------|----------------|----------------|-------------|----------|
| Virat Kohli       | 01885-89282  | -            | 10  | 12    | 1975 | 789        | Gulsan              | 20            | Unit C         | Dhaka          | Bangladesh  | 1214     |
| Anuska Sharma     | 01885-89283  | -            | 12  | 10    | 1981 | 78         | Baker Street        | 23            | Unit A         | London         | UK          | NW16XE   |
| Stven Smith       | 01597-590468 | -            | 19  | 8     | 1979 | 89         | Pennsylvania Avenue | 71            | Unit D         | Washington D.C | USA         | 20500    |
| Mahmudullah Riyed | 01348-790515 | -            | 20  | 12    | 1995 | 789        | Barenggraben        | 20            | Unit C         | Bern           | Switzerland | 3011     |
| Mustfiqur Rahim   | 01459-70468  | -            | 1   | 8     | 1998 | 789        | Drottninggatan      | 20            | Unit B         | Stockholm      | Sweden      | 14       |
| George W. Bush    | 01374-802744 | -            | 9   | 1     | 1987 | 7          | Nowy Swiat          | 20            | Unit A         | Warsaw         | Poland      | 00-001   |
| D. Tramp          | 01782-898657 | 01795-790561 | 10  | 5     | 1978 | 78         | Prinsengracht       | 20            | Unit C         | Amsterdam      | Netherlands | 14       |

7 rows returned in 0.00 seconds

[CSV Export](#)

## Relational Algebra:



1. Find the PASSENGER NAME WHERE the total price is more than 1000 from Passenger\_info Table.  
 $\Pi_{NAME} (\sigma_{TOTAL\_PRICE > 1000} (Payment \bowtie Passenger\_Info))$
2. Find the payment method WHERE the total price is more than 2000 from Passenger\_info Table.  
 $\Pi_{METHOD} (\sigma_{TOTAL\_PRICE > 2000} (Payment))$
3. Find the ticket date, reservation date and seat number from the Ticket\_Info table where the ticket date and reservation date are same.  
 $\Pi_{TICKET\_DATE, RESERVATION\_DATE, SEAT\_NUMBER} (\sigma_{TICKET\_DATE = RESERVATION\_DATE} (Ticket\_Info))$
4. Find the employee's name from the employee\_Info table where the employee type is IT Officer.  
 $\Pi_{NAME} (\sigma_{type = "IT Officer"} (Employee\_Info))$
5. Find the names of all the routes from the Bus\_Info table where bus capacity is more than equal to 55.  
 $\Pi_{ROUTE} (\sigma_{CAPACITY \geq 55} (Bus\_Info))$