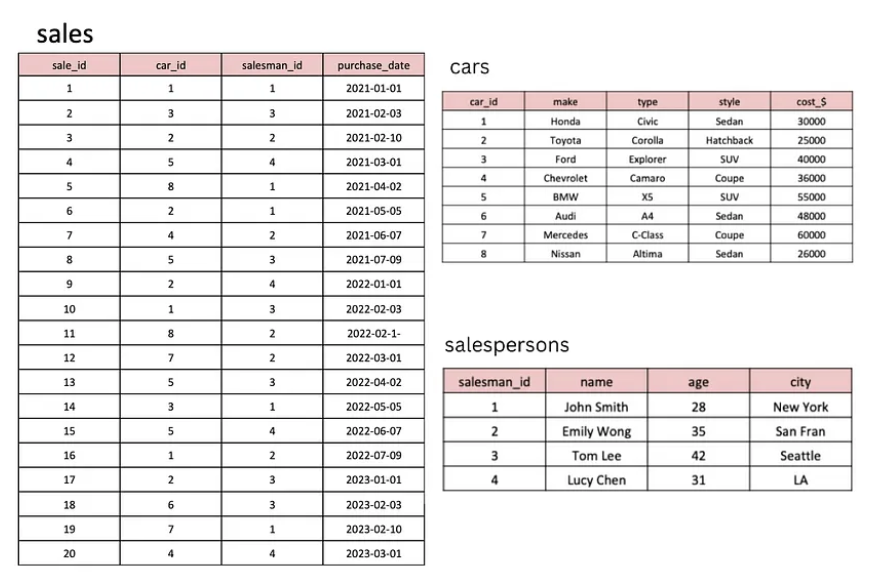
**SQL Project (Car Sales Analysis)**

**INTRODUCTION**

Steve runs a top-end car showroom, but his data analyst has just quit and left him without his crucial insights.  
Please analyse the following data to provide him with all the answers he requires.

**TABLES**



### **Creating Cars Table**

CREATE TABLE cars (  
car\_id INT PRIMARY KEY,  
make VARCHAR(50),  
type VARCHAR(50),  
style VARCHAR(50),  
cost\_$ INT  
);  
--------------------  
INSERT INTO cars (car\_id, make, type, style, cost\_$)  
VALUES (1, 'Honda', 'Civic', 'Sedan', 30000),  
(2, 'Toyota', 'Corolla', 'Hatchback', 25000),  
(3, 'Ford', 'Explorer', 'SUV', 40000),  
(4, 'Chevrolet', 'Camaro', 'Coupe', 36000),  
(5, 'BMW', 'X5', 'SUV', 55000),  
(6, 'Audi', 'A4', 'Sedan', 48000),  
(7, 'Mercedes', 'C-Class', 'Coupe', 60000),  
(8, 'Nissan', 'Altima', 'Sedan', 26000);

### **Creating salespersons Table**

CREATE TABLE salespersons (  
salesman\_id INT PRIMARY KEY,  
name VARCHAR(50),  
age INT,  
city VARCHAR(50)  
);  
--------------------  
INSERT INTO salespersons (salesman\_id, name, age, city)  
VALUES (1, 'John Smith', 28, 'New York'),  
(2, 'Emily Wong', 35, 'San Fran'),  
(3, 'Tom Lee', 42, 'Seattle'),  
(4, 'Lucy Chen', 31, 'LA');

### **Creating sales Table**

CREATE TABLE sales (  
sale\_id INT PRIMARY KEY,  
car\_id INT,  
salesman\_id INT,  
purchase\_date DATE,  
FOREIGN KEY (car\_id) REFERENCES cars(car\_id),  
FOREIGN KEY (salesman\_id) REFERENCES salespersons(salesman\_id)  
);  
--------------------  
INSERT INTO sales (sale\_id, car\_id, salesman\_id, purchase\_date)  
VALUES (1, 1, 1, '2021-01-01'),  
(2, 3, 3, '2021-02-03'),  
(3, 2, 2, '2021-02-10'),  
(4, 5, 4, '2021-03-01'),  
(5, 8, 1, '2021-04-02'),  
(6, 2, 1, '2021-05-05'),  
(7, 4, 2, '2021-06-07'),  
(8, 5, 3, '2021-07-09'),  
(9, 2, 4, '2022-01-01'),  
(10, 1, 3, '2022-02-03'),  
(11, 8, 2, '2022-02-10'),  
(12, 7, 2, '2022-03-01'),  
(13, 5, 3, '2022-04-02'),  
(14, 3, 1, '2022-05-05'),  
(15, 5, 4, '2022-06-07'),  
(16, 1, 2, '2022-07-09'),  
(17, 2, 3, '2023-01-01'),  
(18, 6, 3, '2023-02-03'),  
(19, 7, 1, '2023-02-10'),  
(20, 4, 4, '2023-03-01');

## CASE STUDY QUESTIONS

1. What are the details of all cars purchased in the year 2022?
2. What is the total number of cars sold by each salesperson?
3. What is the total revenue generated by each salesperson?
4. What are the details of the cars sold by each salesperson?
5. What is the total revenue generated by each car type?
6. What is the total revenue generated by the sales of hatchback cars?
7. What are the details of the cars sold in the year 2021 by salesperson ‘Emily Wong’?
8. What is the total revenue generated by the sales of SUV cars in the year 2022?
9. What is the name and city of the salesperson who sold the most number of cars in the year 2023?
10. What is the name and age of the salesperson who generated the highest revenue in the year 2022?