H2 console

CREATE TABLE vehicle (

id BIGINT GENERATED BY DEFAULT AS IDENTITY,

brand VARCHAR(255),

model VARCHAR(255),

type VARCHAR(255),

PRIMARY KEY (id)

);  
);  
INSERT INTO vehicle (id, brand, model, type) VALUES  
(1, 'Toyota', 'Corolla', 'Sedan'),  
(2, 'Honda', 'Civic', 'Sedan'),  
(3, 'Ford', 'Transit', 'Van');  
SELECT \* FROM vehicle;  
  
CREATE TABLE maintenance (  
id BIGINT PRIMARY KEY,  
 vehicleId BIGINT,  
description VARCHAR(255),  
maintenanceDate DATE  
);  
INSERT INTO maintenance (id, vehicleId, description, maintenanceDate) VALUES  
(1, 1, 'Oil change', '2025-06-01'),  
(2, 2, 'Brake replacement', '2025-06-02'),  
(3, 3, 'Tire rotation', '2025-06-03');  
SELECT \* FROM maintenance;  
  
CREATE TABLE damage\_report (  
 id BIGINT PRIMARY KEY,  
bookingId BIGINT,  
description VARCHAR(255),  
estimatedCost DOUBLE,  
reportDate DATE  
);  
INSERT INTO damage\_report (id, bookingId, description, estimatedCost, reportDate) VALUES  
(1, 101, 'Broken side mirror', 150.0, '2025-06-01'),  
(2, 102, 'Scratched door', 200.0, '2025-06-02'),  
(3, 103, 'Cracked windshield', 400.0, '2025-06-03');  
SELECT \* FROM damage\_report;  
  
CREATE TABLE invoice (  
id BIGINT PRIMARY KEY,  
bookingid BIGINT,  
amount DOUBLE,  
invoiceDate DATE  
);  
INSERT INTO invoice (id, bookingid, amount, invoiceDate) VALUES  
(1, 101, 1200.0, '2025-06-04'),  
(2, 102, 850.0, '2025-06-04'),  
(3, 103, 990.0, '2025-06-04');  
SELECT \* FROM invoice;

**Where INFORMATION\_SCHEMA Comes From**

* When your Spring Boot app starts, it **automatically creates** the H2 in-memory database using:

properties

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spring.datasource.url=jdbc:h2:mem:testdb

* Then, Spring Boot (with JPA/Hibernate) **generates the tables** from your Java entities (@Entity classes).
* INFORMATION\_SCHEMA is **built-in** by H2 and dynamically updated when tables are created.

**How to Use It in H2 Console**

After launching your app and going to <http://localhost:8080/h2-console>:

**You can run queries like:**

sql

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-- List all tables

SELECT \* FROM INFORMATION\_SCHEMA.TABLES;

-- List all columns in your tables

SELECT \* FROM INFORMATION\_SCHEMA.COLUMNS WHERE TABLE\_SCHEMA = 'PUBLIC';

-- Get structure of the 'vehicle' table

SELECT \* FROM INFORMATION\_SCHEMA.COLUMNS WHERE TABLE\_NAME = 'VEHICLE';

**When Is It Created?**

* It’s created automatically when the H2 DB engine starts — you don’t need to define or load it.
* It's **refreshed on every app restart** when you're using an **in-memory database**.