use database sales;

show databases;

use database sales;

use sales;

create table table1(

sale\_id int primary key,

product\_id int ,

quantity\_sold int ,

sale\_date date ,

total\_price decimal(10,2));

insert into table1(sale\_id, product\_id,quantity\_sold,sale\_date,total\_price)values(1,101,5,'2024-01-01',2500.00),(2,102,3,'2024-01-02',900.00),(3,103,2,'2024-01-02',60.00),(4,104,4,'2024-01-03',80.00),(5,105,6,'2024-01-03',90.00);

Question1 Retrieve all columns from the Sales table.

mysql> select \*from table1;

+---------+------------+---------------+------------+-------------+

| sale\_id | product\_id | quantity\_sold | sale\_date | total\_price |

+---------+------------+---------------+------------+-------------+

| 1 | 101 | 5 | 2024-01-01 | 2500.00 |

| 2 | 102 | 3 | 2024-01-02 | 900.00 |

| 3 | 103 | 2 | 2024-01-02 | 60.00 |

| 4 | 104 | 4 | 2024-01-03 | 80.00 |

| 5 | 105 | 6 | 2024-01-03 | 90.00 |

+---------+------------+---------------+------------+-------------+

Question2 Retrieve the sale\_id and sale\_date from the Sales table

select sale\_id,sale\_date from table1;

+---------+------------+

| sale\_id | sale\_date |

+---------+------------+

| 1 | 2024-01-01 |

| 2 | 2024-01-02 |

| 3 | 2024-01-02 |

| 4 | 2024-01-03 |

| 5 | 2024-01-03 |

+---------+------------+

Question3 Filter the Sales table to show only sales with a total\_price greater than $100.

select \* from table1 where total\_price>100;

+---------+------------+---------------+------------+-------------+

| sale\_id | product\_id | quantity\_sold | sale\_date | total\_price |

+---------+------------+---------------+------------+-------------+

| 1 | 101 | 5 | 2024-01-01 | 2500.00 |

| 2 | 102 | 3 | 2024-01-02 | 900.00 |

+---------+------------+---------------+------------+-------------+

Question4 Retrieve the sale\_id and total\_price from the Sales table for sales made on January 3, 2024.

select sale\_id,total\_price from table1 where sale\_date = '2024-01-01';

+---------+-------------+

| sale\_id | total\_price |

+---------+-------------+

| 1 | 2500.00 |

+---------+-------------+

Question5 Calculate the total revenue generated from all sales in the Sales table.

select sum( total\_price) as total\_revenue from table1;

+---------------+

| total\_revenue |

+---------------+

| 3630.00 |

+---------------+

Question 6 Calculate the total quantity\_sold from the Sales table.

select sum(quantity\_sold) as toatal\_quantity from table1;

+-----------------+

| toatal\_quantity |

+-----------------+

| 20 |

+-----------------+