SQL Practice Questions-SET Operator

Pre-requisites :

Create Two tables ***product_jan*** and ***product_feb*** . Also insert few records into these table.

Please find the SQL queries for the same on next page.

Create product_jan Table

```
CREATE TABLE `product_jan` (
`prod_id` int NOT NULL,
`prod_name` varchar(45) NOT NULL,
`price` decimal(10,0) NOT NULL,
`quantity` int NOT NULL,
`expiry_date` date NOT NULL,
PRIMARY KEY (`prod_id`)
)
```

Insert data into product_jan Table

```
INSERT INTO `product_jan` VALUES
(1,'Chocolate',10,15,'2024-05-10'),
(2,'Biscuits',20,10,'2025-10-30'),
(3,'Noodles',60,5,'2025-11-01'),
(4,'Peanuts',15,20,'2024-06-06'),
(5,'Lays',25,30,'2025-05-17'),
(6,'Oats',40,25,'2025-02-14'),
(7,'Almonds',150,6,'2026-01-18'),
(8,'Pickle',80,3,'2024-12-25');
```

Create product_feb Table

```
CREATE TABLE `product_feb` (
`prod_id` int NOT NULL,
`prod_name` varchar(45) NOT NULL,
`price` decimal(10,0) NOT NULL,
`quantity` int NOT NULL,
`expiry_date` date NOT NULL,
PRIMARY KEY (`prod_id`)
)
```

Insert data into product_feb Table

```
INSERT INTO `product_feb` VALUES
(1,'Cold Drink',90,10,'2024-08-21'),
(2,'Milk',30,50,'2023-06-20'),
(3,'Noodles',60,5,'2025-11-01'),
(4,'Oil',65,18,'2024-02-28'),
(5,'Lays',25,30,'2025-05-17'),
(6,'Oats',40,25,'2025-02-14');
```

Questions

1) Write an SQL query to retrieve all the products from both tables where the quantity sold is greater than 5 in January and February.

2) Write an SQL query to retrieve the common records from the two tables, i.e., the products that were sold in both January and February.

3) Write an SQL query to find the common product names that were sold in both January and February, along with their respective quantities, prices, and total sales.

Expected Output

prod_name	quantity	price	total
Noodles	5	60	300
Lays	30	25	750
Oats	25	40	1000

4) Write an SQL query to retrieve the products that were sold in January for price less than 30 but were not sold in February.

5) Write an SQL query to retrieve the details of products sold in either January or February, with a price between 10 and 50. The query should return all columns from the matching rows in both tables.

6) Write an SQL query to retrieve the total sales for each month and display the results as a union of two rows, where the first row represents the total sales for January and the second row represents the total sales for February. The column names should be "Month" for the month name and "total_sales" for the sum of prices.

Expected Output

Month	total_sales
January	3840
February	5620

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