1. INNER JOIN Practical Questions

1. Write a query to get the first_name, last_name, and email of all customers who have made at least one purchase.

2. List the product_name and price_per_unit for products that have been purchased by at least one customer.

3. Find the first_name, last_name, and purchase_date for customers who have made a purchase.

4. Write a query to list the first_name, last_name, and product_name for customers who have bought more than 3 units of a product in a single purchase.

5. Retrieve the first_name, last_name, product_name, and total_amount for all customers who spent more than $500 in a single purchase.

6. Write a query to find the total number of products bought by each customer and the total amount spent on all purchases.

7. Write a query to list the customers who purchased the highest priced product and the total amount they spent.

8. Write a query that shows the customer_id, product_name, and the quantity purchased for each customer who purchased more than one product.

9. List the total spending per customer and their most expensive product purchased using INNER JOIN.

10. Write a query to find customers who have purchased both from the 'Electronics' and 'Fashion' categories.

2. LEFT JOIN Practical Questions

1. Write a query to list all customers and their purchase details (if available).

2. List all products and the quantity purchased by each customer, even if no purchases have been made.

3. Write a query to find all customers who haven't made any purchases.

4. List all customers and the total amount they spent on purchases, including those who made no purchases.

5. Write a query to find products that have not been purchased.

6. Find customers who have purchased products but did not buy from the 'Electronics' category.

7. Write a query to find customers who purchased only products from the 'Fashion' category.

8. List all customers who have made purchases and the corresponding product details, but include those who haven't purchased anything.

9. Write a query to list all products that have been purchased by customers in the 'Electronics' category but exclude customers who have purchased only from the 'Fashion' category.

3. RIGHT JOIN Practical Questions

1. Write a query to list all products and their purchase details (if available).

2. Find all purchases and their corresponding customer details, even if the customer has not been linked to a purchase.

3. List all customers and the product names of their purchases, even if some purchases don't have corresponding customer data.

4. Write a query to list all products purchased by customers, even if some purchases don't have customer data.

5. Write a query to list all products that have been purchased by customers, and include products that have not been purchased.

6. List the customer details and product names for customers who have purchased a product but do not have corresponding records in the products table.

4. OUTER JOIN Practical Questions (FULL OUTER JOIN)

1. Write a query to list all customers and all products, even if no purchase exists.

2. List all products and customers, including those who haven't made a purchase or been linked to a product.

3. Find all customers and products where no purchase has occurred, including customers who have never made a purchase.

4. Write a query that shows all customers and their corresponding purchases, as well as products that no one has purchased, using FULL OUTER JOIN.

5. How can a FULL OUTER JOIN help in identifying data discrepancies in tables?

6. Write a query to list all customers and products where no purchase has occurred, even if some customers have no purchase records.

7. Write a query to list the total purchase amount per customer, showing all customers and products, even if no purchase has occurred.

8. Can you use FULL OUTER JOIN to detect customers who bought products but have never been recorded in the products table?

9. Write a query to identify customers who have purchased both from the Electronics and Fashion categories but did not purchase any product from the Sports category.

10. How would you use a FULL OUTER JOIN to combine the purchases and products tables and include all records from both tables?