EXERCISE 5

8/8/2025

1. Create given tables and perform JOIN operations on them

Create a table called STUDENT with the following structure.

Name	**type**
Roll number	integer type
Name	character type
Address	character type
Phone	int type
Age	int type

Create a table called StudentCourse with the following structure.

Name	**type**
CourseId	integer type
Roll number	integer type

Perform given JOIN operations on the above tables.

i. INNER JOIN
ii. LEFT JOIN
iii. RIGHT JOIN
iv. FULL JOIN
v. NATURAL JOIN
vi. THETA JOIN
vii. EQUI JOIN

2. **Customer**(Cust id : integer, cust_name: string)

Item(item_id: integer,item_name: string, price: integer)

Sale(bill_no: integer, bill_date: date, cust_id: integer, item_id: integer, qty_sold: integer)

For the above schema, perform the following:

1. Create the tables with the appropriate integrity constraints and insert around 10 records in each of the tables
2. Create a view which lists out the bill_no, bill_date, cust_id, item_id, price, qty_sold, and amount.
3. Create a view which lists the daily sales date wise for the last one week
4. Create a derived relation to get the top 5 products> by sales revenue in 2021 from the sale and Item tables
5. Classify the customers into 3 groups based on their purchases in 2021 and count the number of customers in each group using derived relation. Silver - < 10 k , Gold - > 10k and < 50 k, Platinum > 50k
6. Find the top 5 customer by their spending in year 2021 (use with clause)