Assignment-Hierarchical Queries

Q1) Fetch last 5 rows from LMS_Members Table, order by their registration.

```
51    select * from Lms_members
52    order by DATE_REGISTER
53    offset 20 Rows FETCH NEXT 5 ROWS
54    only;
55
```

MEMBER_ID	MEMBER_NAME	CITY	DATE_REGISTER	DATE_EXPIRE	MEMBERSHIP_STATUS
LM018	Smita	Pune	19-SEP-19	19-OCT-20	Permanent
LM002	Amruta	PUNE	02-MAR-20	03-JUN-20	Temporary
LM008	Nikhil	Bangalore	09-MAR-20	03-JUN-20	Permanent
LM019	Snehal	Bangalore	09-MAR-20	03-JUN-20	Permanent
LM013	Renuka	PUNE	02-AUG-20	03-JUN-20	Temporary

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Q2)   Write a query to display Member name , Book Title, Issue and return date then show the hierarchy of tables (Grandparent-parent-child relationship)

```
1
2    Select m.MEMBER_NAME, bd.book_title, bi.date_issue, bi.DATE_RETURN
3    from LMS_members m
4    inner join LMS_BOOK_issue bi on m.MEMBER_ID = bi.MEMBER_ID
5    inner join LMS_BOOK_details bd on bd.book_code = bi.Book_code;
6
7
8    --Alter table Lms_members
9    --drop (city, DATE_REGISTER, DATE_EXPIRE, MEMBERSHIP_STATUS);
10
11   --Alter table LMS_BOOK_ISSUE
12   --drop (BOOK_ISSUE_NO,DATE_RETURNED, FINE_RANGE);
13
14   --Alter table LMS_BOOK_DETAILS
15   --drop (CATEGORY,AUTHOR, PUBLICATION, PUBLISH_DATE,BOOK_EDITION, PRICE, RACK_NUM, DATE_ARRIVAL, SUPPLIER_ID)
16
17   --Select * from Lms_members;
18   S--elect * from LMS_BOOK_ISSUE;
19   --Select * from LMS_BOOK_DETAILS;
20
```

MEMBER_NAME	BOOK_TITLE	DATE_ISSUE	DATE_RETURN
Akshay	Java How To Do Program	01-MAY-12	16-MAY-12

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Q3) Write a query to compare the price of different books according to their book editions. (using Lead/Lagfunction)

```
20   Select BOOK_TITLE, price,
21   LAG(price)over(order by price) as previous_price_value,
22   LEAD(price)over(order by price) as new_previous_value
23   from LMS_BOOK_DETAILS;
24
```

BOOK_TITLE	PRICE	PREVIOUS_PRICE_VALUE	NEW_PREVIOUS_VALUE
Learn Python in 1 Day	307	-	350
Python Cookbook: Recipes for Mastering Python 3	350	307	410
C# 8.0 and .NET Core 3.0 - Modern Cross-Platform Development	410	350	450
Design Patterns: Elements of Reusable Object-Oriented Software	450	410	456
The Algorithm Design Manual	456	450	500
Let Us C	500	456	520

Q4) List down the books according to Rack number except A1 and A2

```sql
26    Select BOOK_TITLE, rack_num
27    from lms_book_details
28    where rack_num != 'A1' and rack_num != 'A2'
29    order by Rack_num;
```

BOOK_TITLE	RACK_NUM
Let Us C	A3
Learn Python in 1 Day	A3
C# 8.0 and .NET Core 3.0 – Modern Cross-Platform Development	A3
Clean Code: A Handbook of Agile Software Craftsmanship	A3
Algorithms	A3
Advanced Data Structures	A3
Introduction to Algorithms	A4