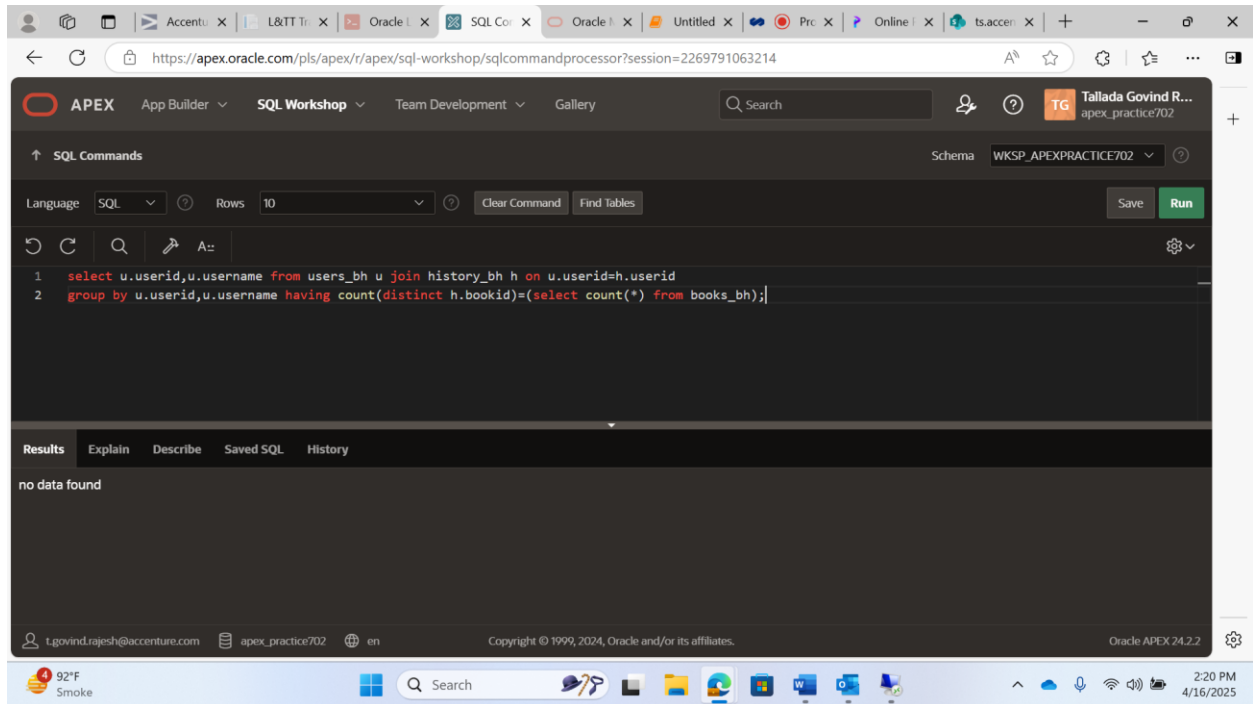Hands-On

1a. Display users who have borrowed all the books from the library at least once

The Given table consists of two user with id 1 and 2

User 1 borrowed two books from the library 101 and 103 and didn't borrowed book id 102

User 2 borrowed only one book from the library which is 102 and user1 did not borrow book id's 101 and 103

So,My Conclusion is No data Found which explains the screenshot above or result

1b. Display no of books borrowed in each month

Since the three books are borrowed in same month the total borrowed is also 3 from the given table

2.

Plsql Function Get_Borrow_duration

CREATE OR REPLACE FUNCTION GET_BORROW_DURATION(

  P_USERID IN NUMBER,

  P_BOOKID IN NUMBER

) RETURN NUMBER

IS V_BORROWDATE HISTORY_BH.BORROWDATE%TYPE;

  V_RETURNDATE HISTORY_BH.RETURNDATE%TYPE;

  V_DURATION NUMBER;

BEGIN

  SELECT BORROWDATE,RETURNDATE

  INTO V_BORROWDATE,V_RETURNDATE

  FROM HISTORY_BH

  WHERE USERID = P_USERID AND BOOKID=P_BOOKID

```
  AND ROWNUM=1;


  IF V_RETURNDATE IS NOT NULL THEN

    V_DURATION:=SYSDATE-V_BORROWDATE;

  ELSE

    V_DURATION:=SYSDATE-V_BORROWDATE;

  END IF;

  RETURN V_DURATION;
EXCEPTION

  WHEN NO_DATA_FOUND THEN

    DBMS_OUTPUT.PUT_LINE('NO RECORD FOUND FOR THIS USER AND BOOK');

    RETURN -1;

  WHEN OTHERS THEN

    DBMS_OUTPUT.PUT_LINE('ERROR:'||SQLERRM);

    RETURN -1;
END GET_BORROW_DURATION;
```

2 (4) INVOKE GET_BORROW_DURATION

```
DECLARE
V_DAYS NUMBER;
BEGIN
V_DAYS:=GET_BORROW_DURATION(2,102);
DBMS_OUTPUT.PUT_LINE('BORROW DURATION: '|| V_DAYS || ' DAYS ');
END;
DECLARE
V_DAYS NUMBER;
BEGIN
V_DAYS:=GET_BORROW_DURATION(1,103);
DBMS_OUTPUT.PUT_LINE('BORROW DURATION: '|| V_DAYS || ' DAYS ');
END;
```
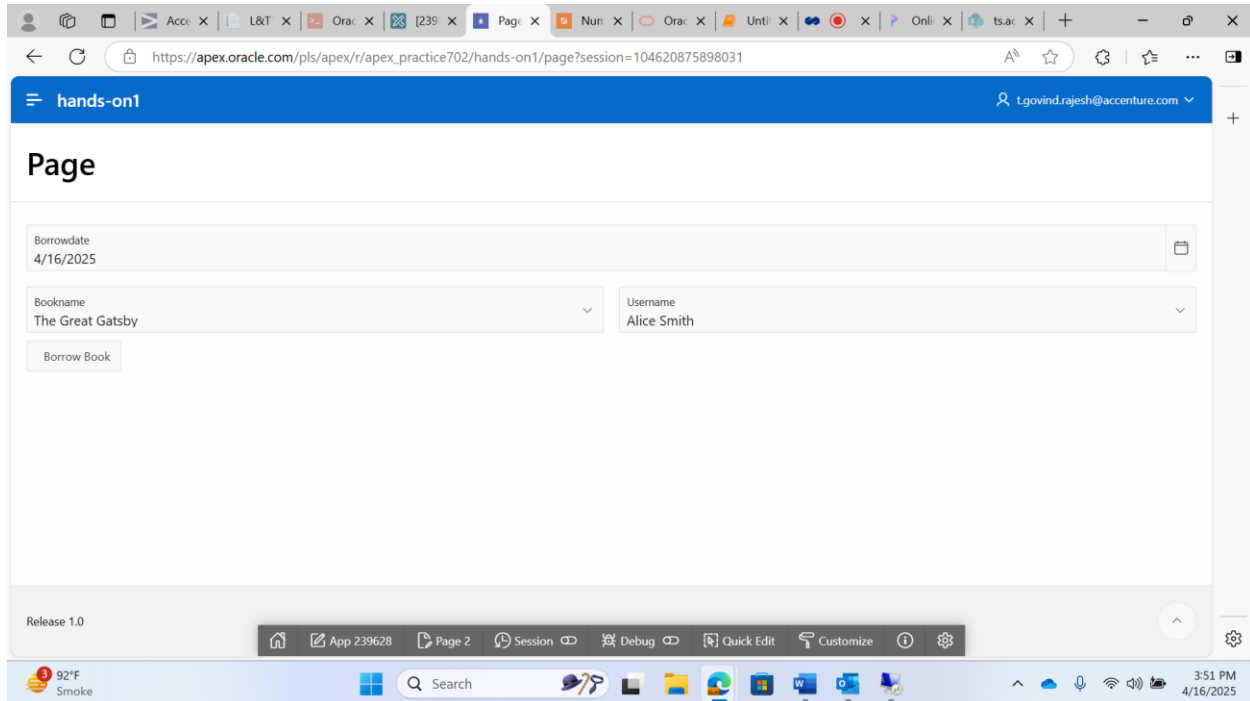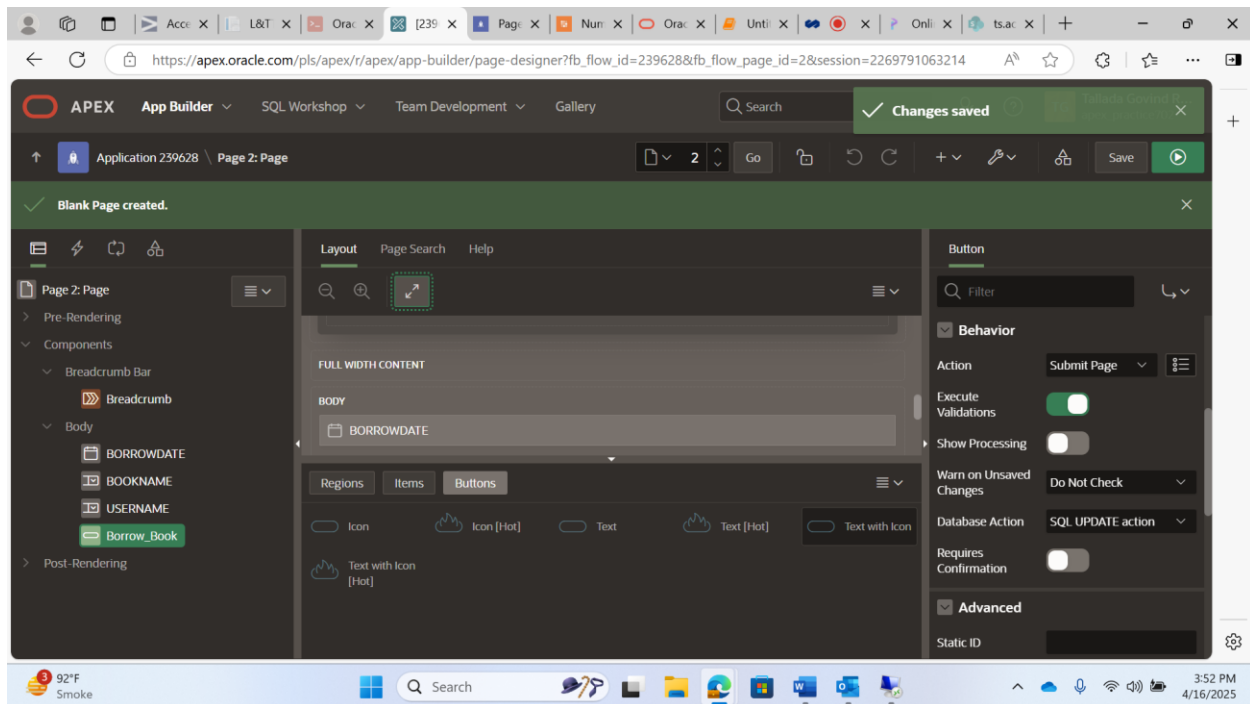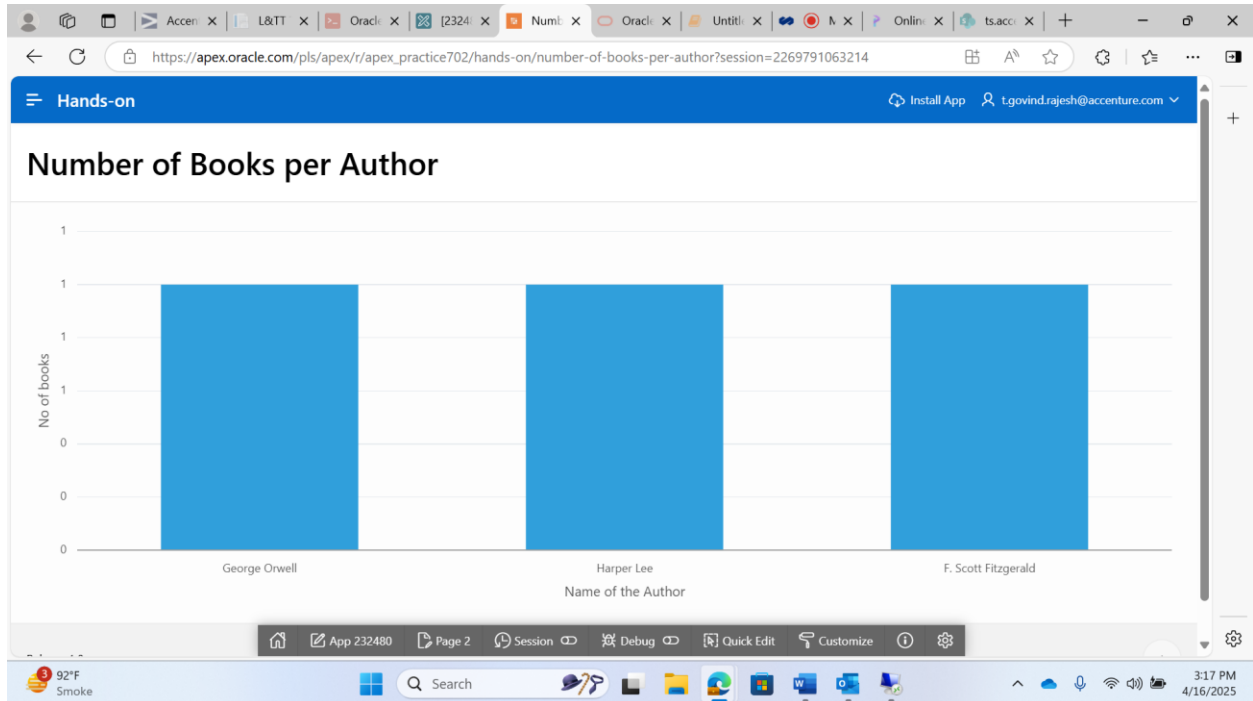
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⬆ SQL Commands   Schema   WKSP_APEXPRACTICE702 ⌄

Language PL/SQL ⌄   Rows 10 ⌄   Clear Command   Find Tables   Save   Run

```
1  DECLARE
2  V_DAYS NUMBER;
3  BEGIN
4  V_DAYS:=GET_BORROW_DURATION(1,103);
5  DBMS_OUTPUT.PUT_LINE('BORROW DURATION: '|| V_DAYS || ' DAYS ');
6  END;
7
```

Results   Explain   Describe   Saved SQL   History

BORROW DURATION: 243.386168981481481481481481481481481481 DAYS

Statement processed.

0.01 seconds

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4/16/2025

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⬆ SQL Commands   Schema   WKSP_APEXPRACTICE702 ⌄

Language PL/SQL ⌄   Rows 10 ⌄   Clear Command   Find Tables   Save   Run

```
1  DECLARE
2  V_DAYS NUMBER;
3  BEGIN
4  V_DAYS:=GET_BORROW_DURATION(2,102);
5  DBMS_OUTPUT.PUT_LINE('BORROW DURATION: '|| V_DAYS || ' DAYS ');
6  END;
7
```

Results   Explain   Describe   Saved SQL   History

BORROW DURATION: 254.384849537037037037037037037037037037 DAYS

Statement processed.

0.03 seconds

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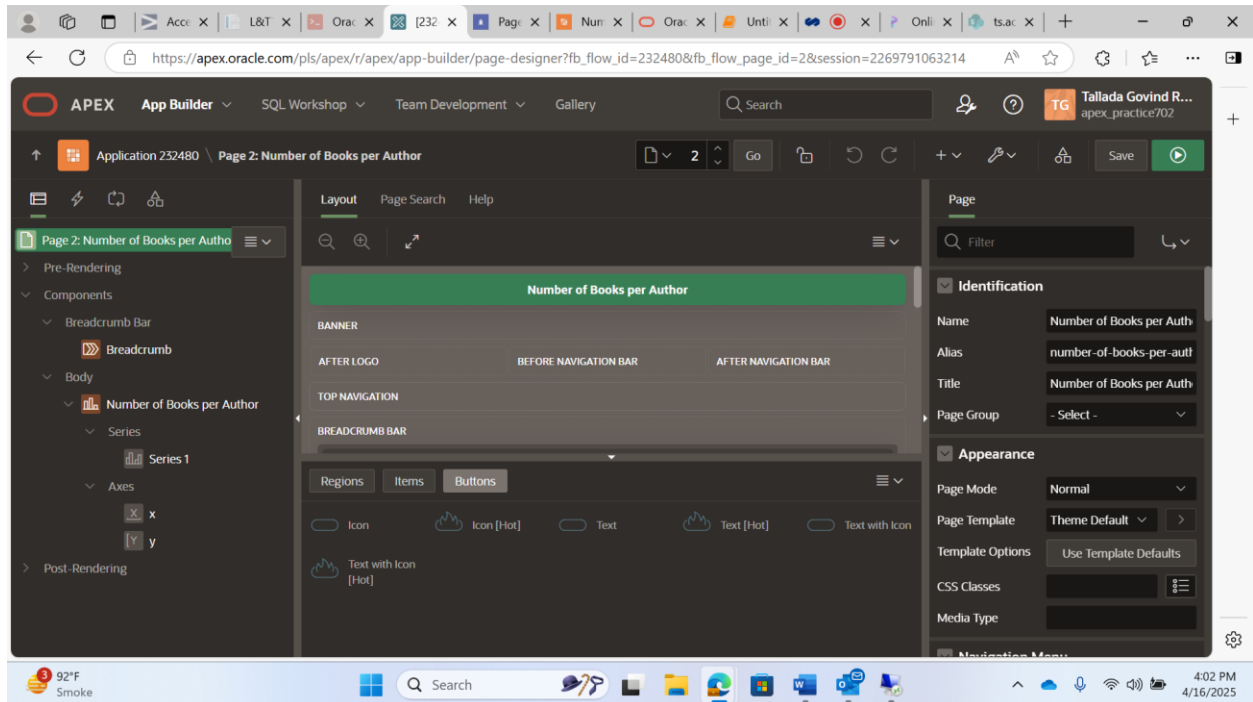92°F   Smoke   🔍 Search   2:43 PM
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3. Create an Application with Blank Page In Apex

4. Create a Bar Chart With Title Number of books per Author

Note : Labels Should be Name of the Author and Number of books

I have created a bar chart titled with Number of Books per Author and labeled as given in the Question.

5. Python Program to Print the all the Odd Numbers upto a Given Number

```
main.py                              Share    Run        Output                                          Clear
1   n=int(input())                                       10
2 - for i in range(1,n+1):                               1
3 -     if i%2!=0:                                        3
4           print(i)                                      5
                                                          7
                                                          9

                                                          === Code Execution Successful ===
```