First Query:
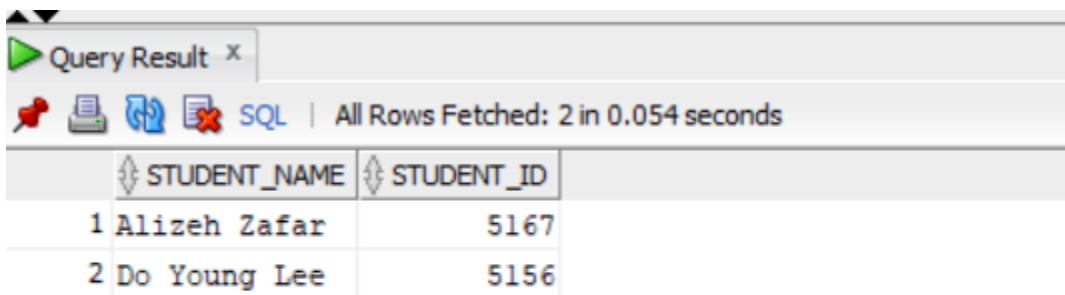
SELECT DISTINCT s.student_name, s.student_id
FROM student s
WHERE EXISTS (
SELECT *
FROM loan l
WHERE l.student_id = s.student_id
) AND EXISTS(
SELECT *
FROM book_fine bf
WHERE bf.student_id = s.student_id
AND bf.status = 'unpaid'
);

Result:

```
SQL> SQL> SQL> SQL> SQL>   2    3    4    5    6    7    8    9   10   11   12
STUDENT_NAME
------------------------------------------------------------------------------
STUDENT_ID
----------
Alizeh Zafar
      5167

Do Young Lee
      5156
```

Query Result ✕

📌 🖨 🔁 ⬛ SQL | All Rows Fetched: 2 in 0.054 seconds

	STUDENT_NAME	STUDENT_ID
1	Alizeh Zafar	5167
2	Do Young Lee	5156

Second Query:

SELECT b.genre, COUNT(b.ISBN) AS loaned_books
FROM book b
WHERE EXISTS (
    SELECT *

```
    FROM loan l
    WHERE l.ISBN = b.ISBN
)
GROUP BY b.genre;
```
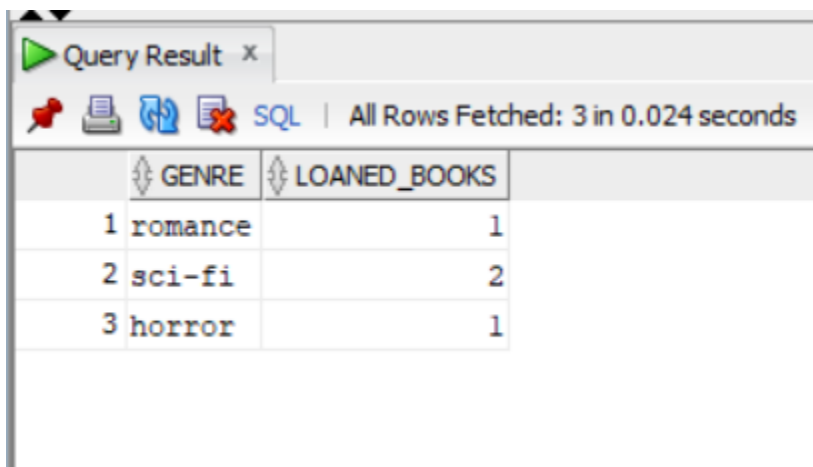
Result:

```
SQL> SQL> SQL> SQL>    2    3    4    5    6    7    8
GENRE
----------------------------------------------------------------------------
LOANED_BOOKS
------------
romance
          1

sci-fi
          2

horror
          1
```


Query Result ×

📌 🖨 🔁 📋 SQL | All Rows Fetched: 3 in 0.024 seconds

	GENRE	LOANED_BOOKS
1	romance	1
2	sci-fi	2
3	horror	1

Third Query:

```
SELECT
    s.student_id,
    s.student_name,
    SUM(bf.amount) AS total_fines
FROM student s, book_fine bf
WHERE s.student_id = bf.student_id AND bf.status = 'unpaid'

GROUP BY s.student_id, s.student_name
HAVING SUM(bf.amount) > 0;
```
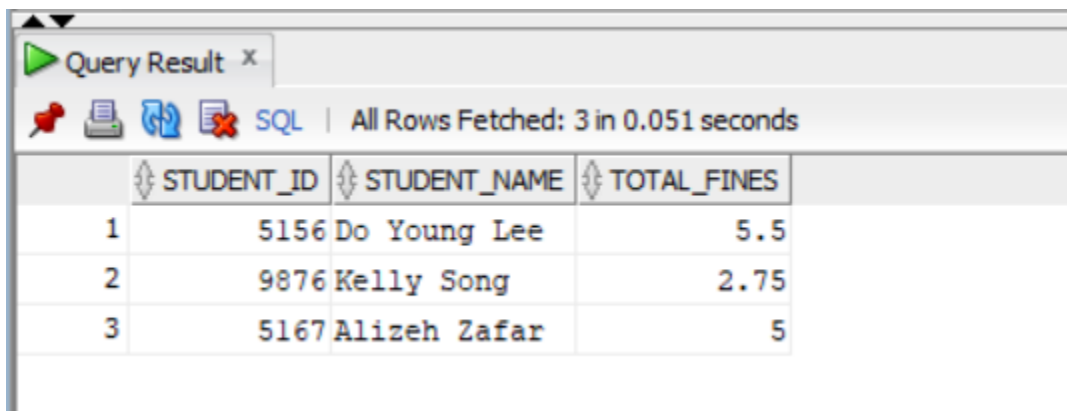
Result:

```
SQL> SQL> SQL> SQL>    2    3    4    5    6    7    8
STUDENT_ID
----------
STUDENT_NAME
--------------------------------------------------------------
TOTAL_FINES
-----------
      5156
Do Young Lee
       5.5

      9876
Kelly Song
       2.75

STUDENT_ID
----------
STUDENT_NAME
--------------------------------------------------------------
TOTAL_FINES
-----------

      5167
Alizeh Zafar
         5
```

Query Result ×

SQL | All Rows Fetched: 3 in 0.051 seconds
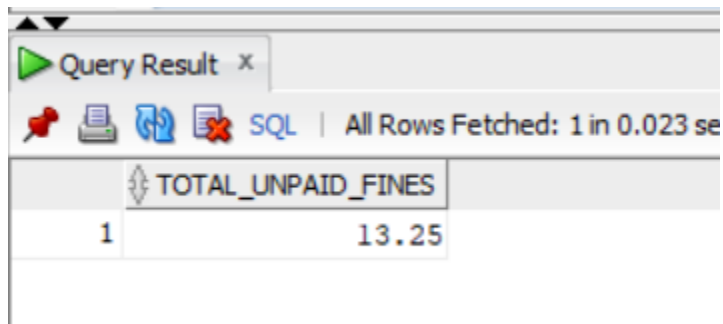
	STUDENT_ID	STUDENT_NAME	TOTAL_FINES
1	5156	Do Young Lee	5.5
2	9876	Kelly Song	2.75
3	5167	Alizeh Zafar	5

Fourth Query:
SELECT
SUM(amount) AS total_unpaid_fines
FROM book_fine
WHERE status = 'unpaid';

Result:

```
SQL> SQL> SQL> SQL>    2    3    4
TOTAL_UNPAID_FINES
------------------
            13.25
```



```
Query Result  X

⚲ 🖨 🔁 ❌ SQL  | All Rows Fetched: 1 in 0.023 se

      ◊ TOTAL_UNPAID_FINES
   1                13.25
```

Fifth Query:
SELECT DISTINCT s.student_name
FROM student s
WHERE EXISTS (
    SELECT *
    FROM book_fine bf
    WHERE s.student_id = bf.student_id
    AND bf.status = 'paid'
)
UNION
SELECT DISTINCT s.student_name
FROM student s
WHERE EXISTS (
    SELECT *
    FROM loan l
    WHERE s.student_id = l.student_id
);

Result:

```
SQL> SQL> SQL> SQL>    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16
STUDENT_NAME
--------------------------------------------------------------------------------
Alizeh Zafar
Brittney Tisdale
Do Young Lee
Nidhi Biswas
Peter McKinney
```

Query Result ✕

SQL | All Rows Fetched: 5 in 0.031 seconds

STUDENT_NAME
1 Alizeh Zafar
2 Brittney Tisdale
3 Do Young Lee
4 Nidhi Biswas
5 Peter McKinney

Sixth Query:
SELECT *
FROM book
MINUS
SELECT b.*
FROM book b, loan l
WHERE b.ISBN = l.ISBN;

Result:

```
SQL> SQL> SQL> SQL>   2    3    4    5    6
ISBN
--------------
BOOK_TITLE
--------------------------------------------------------------------------------
  AUTHOR_ID PUBLICATION_YEAR
---------- ----------------
GENRE
--------------------------------------------------------------------------------
133023
Animal Farm
      4325             2005
fiction


ISBN
--------------
BOOK_TITLE
--------------------------------------------------------------------------------
  AUTHOR_ID PUBLICATION_YEAR
---------- ----------------
GENRE
--------------------------------------------------------------------------------
233483
Tracy Beaker
      4326             2006
horror
```

```
ISBN
--------------
BOOK_TITLE
--------------------------------------------------------------------------------
  AUTHOR_ID PUBLICATION_YEAR
---------- ----------------
GENRE
--------------------------------------------------------------------------------
433013
Here Come the Mountains
      4327             2008
romance


ISBN
--------------
BOOK_TITLE
--------------------------------------------------------------------------------
  AUTHOR_ID PUBLICATION_YEAR
---------- ----------------
GENRE
--------------------------------------------------------------------------------
533023
My Sweet Betty
      4329             2009
sci-fi
```

```
ISBN
-------------
BOOK_TITLE
------------------------------------------------------------------------------
 AUTHOR_ID PUBLICATION_YEAR
---------- ----------------
GENRE
------------------------------------------------------------------------------
833873
Bumblebee
      4329             2003
comedy


ISBN
-------------
BOOK_TITLE
------------------------------------------------------------------------------
 AUTHOR_ID PUBLICATION_YEAR
---------- ----------------
GENRE
------------------------------------------------------------------------------
933953
The Night Circus
      4328             2004
fiction


6 rows selected.
```

Query Result ×

SQL | All Rows Fetched: 6 in 0.021 seconds

	ISBN	BOOK_TITLE	AUTHOR_ID	PUBLICATION_YEAR	GENRE
1	133023	Animal Farm	4325	2005	fiction
2	233483	Tracy Beaker	4326	2006	horror
3	433013	Here Come the Mountains	4327	2008	romance
4	533023	My Sweet Betty	4329	2009	sci-fi
5	833873	Bumblebee	4329	2003	comedy
6	933953	The Night Circus	4328	2004	fiction