

```
/* Group 7 INST 327-0201 Views/Queries*/
```

```
USE lib_project;
```

```
# 1 searches for history books focusing on the region of Asia
```

```
USE lib_project;
```

```
CREATE OR REPLACE VIEW asian_history_books AS
```

```
    SELECT title, CONCAT(author_fname, " ", author_lname) AS "author",  
           country_name, CONCAT(course_code, " ", course_number) AS "course",
```

```
course_description
```

```
    FROM books
```

```
    JOIN regions ON books.region_id = regions.region_id
```

```
    JOIN countries ON books.country_id = countries.country_id
```

```
    JOIN courses ON books.course_id = courses.course_id
```

```
    WHERE region_name = "Asia"
```

```
    ORDER BY author_fname, author_lname;
```

```
# 2 searches for books in a language other than english
```

```
USE lib_project;
```

```
CREATE OR REPLACE VIEW not_in_english AS
```

```
    SELECT books.title, CONCAT(books.author_fname, " ", books.author_lname) AS  
"author", languages.language, countries.country_name
```

```
    FROM books
```

```
    JOIN languages USING(language_id)
```

```
    JOIN countries USING(country_id)
```

```
    WHERE books.language_id != 1
```

```
    ORDER BY title;
```

```
# 3 creates a results set of the most popular (accessed) books
```

```
USE lib_project;
```

```
CREATE OR REPLACE VIEW most_accessed AS
```

```
    SELECT title, CONCAT(author_fname, " ", author_lname) AS author,
```

```
           COUNT(access_records.book_id) AS num_accessed, COUNT(person_id) AS
```

```
num_accessors
```

```
    FROM books
```

```
    JOIN access_records USING(book_id)
```

```
    JOIN people USING(person_id)
```

```
    GROUP BY title, author
```

```
    ORDER BY num_accessed DESC, title, author;
```

```
# 4 finds books that have a greater than average number of pages
```

```
USE lib_project;
```

```
CREATE OR REPLACE VIEW long_reads_US AS
```

```
    SELECT title, author_fname, author_lname, num_pg
```

```
    FROM books
```

```
    WHERE num_pg >
```

```
(
```

```
    SELECT AVG(num_pg)
```

```
    FROM books
```

```
)
```

```
AND
```

```
Country_id = 1
```

```
    ORDER BY num_pg;
```

```
# 5 finds what books have been accessed in the last two years, the dates of use,  
and who accessed them
```

```
USE lib_project;
```

```
CREATE OR REPLACE VIEW accessed_since_2020 AS
```

```
    SELECT title, CONCAT(fname, ' ', lname) AS name, start_time AS checkout_date,  
end_time AS return_date
```

```

        FROM people
            JOIN access_records USING(person_id)
            JOIN books USING(book_id)
        WHERE end_time > '2020-01-01 00:00:00'
        ORDER BY return_date, title, name;

# extra views that are NOT part of the 5 for grading purposes!
# finds books that are less than the average number of pages
USE lib_project;
CREATE OR REPLACE VIEW short_read_US AS
    SELECT title,author_fname,author_lname
        FROM books
        WHERE num_pg <
    (
        SELECT AVG(num_pg)
            FROM books
    )
AND
Country_id = 1
    ORDER BY num_pg;

# finds book titles checked out by a patron until after a date/time
USE library_project;
CREATE OR REPLACE VIEW checked_out_until AS
    SELECT title, CONCAT(fname,' ', lname) AS patron, start_time AS checkout_date,
        end_time AS return_date
    FROM people
        JOIN access_records USING(person_id)
        JOIN books USING(book_id)
    WHERE end_time > '2021-01-01 00:00:00'
    ORDER BY lname;

```