SQL Questions

1. List all books published in 2023:

SELECT * FROM book WHERE published_year = 2023;

1. List the names and contact emails of all publishers:

SELECT publisher_name, contact_email FROM publisher;

2. Find the total number of members who joined after January 1, 2020:

SELECT COUNT(*) AS total_members FROM member WHERE membership_date > '2020-01-01';

3. List the titles and authors of all books available in more than 5 copies:

```
SELECT book.title, CONCAT(author.first_name, ' ', author.last_name) AS author
FROM book
JOIN author ON book.author_id = author.author_id
WHERE book.available_copies > 5;
```

4. Find the name and nationality of authors who have written books in the 'Fiction' category:

```
SELECT DISTINCT author.first_name, author.last_name, author.nationality
FROM author
JOIN book ON author.author_id = book.author_id
JOIN category ON book.category_id = category.category_id
WHERE category.category_name = 'Fiction';
```

5. List the name of the member(s) who borrowed the book titled '1984':

```
SELECT member.first_name, member.last_name
FROM member
JOIN borrowing ON member.member_id = borrowing.member_id
JOIN book ON borrowing.book_id = book.book_id
WHERE book.title = '1984';
```

6. Find the total amount of fines paid in the year 2023:

```
SELECT SUM(amount) AS total_fines
FROM fine
WHERE YEAR(payment_date) = 2023;
```

7. List all the branches located in 'Novi Grad':

```
SELECT * FROM librarybranch WHERE location = 'Novi Grad';
```

8. Find the names of members who have a fine amount greater than 5.00:

```
SELECT DISTINCT member.first_name, member.last_name
FROM member
JOIN borrowing ON member.member_id = borrowing.member_id
JOIN fine ON borrowing.borrowing_id = fine.borrowing_id
WHERE fine.amount > 5.00;
```

9. List the names of all categories that have more than 3 books:

```
SELECT category.category_name
FROM category
JOIN book ON category.category_id = book.category_id
GROUP BY category.category_name
HAVING COUNT(book.book_id) > 3;
```

10. Find the titles of books borrowed by the member with the first name 'Ava':

```
SELECT book.title
FROM book
```

```
JOIN borrowing ON book.book_id = borrowing.book_id
JOIN member ON borrowing.member_id = member.member_id
WHERE member.first_name = 'Ava';
```

11. List the names and contact numbers of members who have borrowed more than 2 books:

```
SELECT member.first_name, member.last_name, member.contact_number
FROM member
JOIN borrowing ON member.member_id = borrowing.member_id
GROUP BY member.member_id
HAVING COUNT(borrowing.book_id) > 2;
```

13. Find the names and publishers of books in the 'Science Fiction' category:

```
SELECT book.title, publisher.publisher_name
FROM book
JOIN publisher ON book.publisher_id = publisher.publisher_id
JOIN category ON book.category_id = category.category_id
WHERE category.category_name = 'Science Fiction';
```

14. List the total number of books available in each branch:

```
SELECT librarybranch.branch_name, SUM(book.available_copies) AS total_books
FROM librarybranch
JOIN borrowing ON librarybranch.branch_id = borrowing.branch_id
JOIN book ON borrowing.book_id = book.book_id
GROUP BY librarybranch.branch_name;
```

15. Find the names and membership dates of members who have borrowed 'To Kill a Mockingbird':

```
SELECT member.first_name, member.last_name, member.membership_date
FROM member
JOIN borrowing ON member.member_id = borrowing.member_id
JOIN book ON borrowing.book_id = book.book_id
```

```
WHERE book.title = 'To Kill a Mockingbird';
```

16. List the titles and publication years of books written by 'Gabriel Garcia Marquez':

```
SELECT book.title, book.published_year
FROM book
JOIN author ON book.author_id = author.author_id
WHERE author.first_name = 'Gabriel' AND author.last_name = 'Garcia Marquez';
```

17. Find the number of books in each category:

```
SELECT category.category_name, COUNT(book.book_id) AS number_of_books
FROM category
JOIN book ON category.category_id = book.category_id
GROUP BY category.category_name;
```

18. List the names of publishers who have published more than 2 books:

```
SELECT publisher.publisher_name
FROM publisher
JOIN book ON publisher.publisher_id = book.publisher_id
GROUP BY publisher.publisher_name
HAVING COUNT(book.book_id) > 2;
```

19. Find the titles of books available in the 'Central' branch:

```
SELECT book.title
FROM book
JOIN borrowing ON book.book_id = borrowing.book_id
JOIN librarybranch ON borrowing.branch_id = librarybranch.branch_id
WHERE librarybranch.branch_name = 'Central';
```

20. List the contact numbers of members who have paid fines:

```
SELECT DISTINCT member.contact_number
FROM member
JOIN borrowing ON member.member_id = borrowing.member_id
JOIN fine ON borrowing.borrowing_id = fine.borrowing_id;
```