

-- For inserting data in table of liabraries

```
INSERT INTO `liabraries` (`id`, `name`, `details`)
VALUES ('1', 'Academic', 'schools, colleges and universities');
```

-- creation of views

View1:

-- create view to select the name and category of books published in 2017 .

```
CREATE VIEW booksINyear AS
SELECT C.name FROM categories as C
JOIN books_has_categories as BC
ON BC.fk_categories_id = C.id
JOIN books as B
ON B.id = BC.fk_books_id
WHERE B.publication_year = 2017
```

View2:

-- create view of books which are in public liabrary.

```
CREATE VIEW publicbooks AS
SELECT name
FROM books
WHERE id IN (SELECT fk_books_id
FROM liabraries_has_books
WHERE fk_liabraries_id IN (SELECT id
FROM liabraries
WHERE name = 'public')
)
```

-- start of queries

-- Query1

-- Select the name of book and year published in 2017

```
SELECT publication_year, name
FROM books
WHERE publication_year = 2017
```

-- Query2

-- select the name and category of books published in 2017 .

-- with JOIN

```
SELECT C.name FROM categories as C
JOIN books_has_categories as BC
ON BC.fk_categories_id = C.id
JOIN books as B
ON B.id = BC.fk_books_id
WHERE B.publication_year = 2017
```

-- with IN

```
SELECT name FROM categories WHERE id in (
SELECT `fk_categories_id` from books_has_categories where `fk_books_id` in (
SELECT id FROM books WHERE publication_year = 2017
)
);
```

-- Query 3

-- select the books published in 2010 in descending order

```
SELECT name
FROM books
WHERE publication_year = 2010
GROUP BY id DESC
```

-- Query 4

-- count the number of categories we have in table

```
SELECT COUNT(id)
FROM categories
```

-- Query 5

-- select the customer name in public library

```
SELECT name
FROM customer
WHERE fk_liabrararies_id IN(
SELECT id
FROM liabrararies
WHERE name = "public")
```

-- Query 6

-- select the customers living in Paris

```
SELECT name
FROM customer
WHERE address LIKE '%paris%'
```

-- Query 7

-- select the books in public library.

```
SELECT name
FROM books
WHERE id IN (SELECT fk_books_id
FROM liabrararies_has_books
WHERE fk_liabrararies_id IN(SELECT id
FROM liabrararies
WHERE name = 'public')
)
```

-- Query 8
-- Books name having name life in it with capital letters

```
SELECT upper(name)
FROM books
WHERE name LIKE '%Life%'
```

-- Query 9
-- select customer name in lowercase living in Orléans .

```
SELECT Lower(name)
FROM customer
WHERE address LIKE '%Orléans%'
```

-- Query 10
-- select the books without auther name

```
SELECT name
FROM books
WHERE author_name IS NULL
```