

# SQL Assignment 1

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## Program 1: Online Bookstore Management

### Query 1

**Problem:** Display all customers whose city name starts with 'A'.

**SQL Query:**

```
SELECT * FROM Customer WHERE city LIKE 'A%';
```

**Output:**

customer_id	name	city
3	Aarav	Ahmedabad

### Query 2

**Problem:** Retrieve all books whose titles contain the word "The".

**SQL Query:**

```
SELECT * FROM Book WHERE title LIKE '%The%';
```

**Output:**

book_id	title	author	price
1	The Silent Patient	Alex Michaelides	360
3	The White Tiger	Aravind Adiga	420
6	The Shadow Lines	Amitav Ghosh	440

### Query 3

**Problem:** Display books priced between 400 and 500.

**SQL Query:**

```
SELECT * FROM Book WHERE price BETWEEN 400 AND 500;
```

**Output:**

book_id	title	author	price
3	The White Tiger	Aravind Adiga	420
6	The Shadow Lines	Amitav Ghosh	440

## Program 2: Fitness Center Membership

### Query 1

**Problem:** List classes that contain the word “Yoga”.

**SQL Query:**

```
SELECT * FROM Class WHERE class_name LIKE '%Yoga%';
```

**Output:**

class_id	class_name	trainer_id
1	Sunrise Yoga	1

### Query 2

**Problem:** Display all members who joined after 1 March 2023.

**SQL Query:**

```
SELECT * FROM Member WHERE join_date > '2023-03-01';
```

**Output:**

member_id	name	join_date	city
2	Divy	2023-03-15	Jaipur
3	Vedant	2023-04-05	Pune
4	Bhaumik	2023-05-10	Surat

### Query 3

**Problem:** Display trainers whose specialization is exactly 4 characters long.

**SQL Query:**

```
SELECT * FROM Trainer WHERE LENGTH(specialization) = 4;
```

**Output:**

trainer_id	name	specialization
1	Yaksh	Yoga

## Program 3: Movie Rental

### Query 1

**Problem:** Find customers whose name contains “Shah”.

**SQL Query:**

```
SELECT * FROM Customer WHERE name LIKE '%Shah';
```

**Output:** (No rows returned)

## Query 2

**Problem:** Display movies released between 2010 and 2020.

**SQL Query:**

```
SELECT * FROM Movie WHERE release_year BETWEEN 2010 AND 2020;
```

**Output:**

movie_id	title	genre	release_year
2	Inception	Sci-Fi	2010
3	Drishyam	Thriller	2015
5	Interstellar	Sci-Fi	2014

## Query 3

**Problem:** Retrieve all movies with “Sci-Fi” genre.

**SQL Query:**

```
SELECT * FROM Movie WHERE genre LIKE '%Sci-Fi%';
```

**Output:**

movie_id	title	genre	release_year
2	Inception	Sci-Fi	2010
5	Interstellar	Sci-Fi	2014