#### Q1 -

## All Products

## Task

Write a query to output the Products table.

Table name: Products

product_id	product_name	price	category
1	Laptop	999.99	Electronics
2	Desk Chair	149.99	Furniture
3	Smartphone	599.99	Electronics
4	Notebook	2.99	Stationery
5	Headphones	89.99	Electronics
6	Coffee Maker	49.99	Appliances
7	Standing Desk	249.99	Furniture
8	Tablet	399.99	Electronics
9	Mouse	19.99	Electronics
10	Water Bottle	12.99	Stationery

<sup>--</sup>your code goes here
select \* from products;

# Q2 -

High Price of Products

Write a query to find all product\_name and category that have a price greater than 100.00 from the **Products** table.

Table name: Products

product_id	product_name	price	category
1	Laptop	999.99	Electronics
2	Desk Chair	149.99	Furniture
3	Smartphone	599.99	Electronics
4	Notebook	2.99	Stationery
5	Headphones	89.99	Electronics
6	Coffee Maker	49.99	Appliances
7	Standing Desk	249.99	Furniture
8	Tablet	399.99	Electronics
9	Mouse	19.99	Electronics
10	Water Bottle	12.99	Stationery

<sup>--</sup> your code goes here

select product\_name, category from products where price > 100.00

#### Q3 -

## Average Salary

#### Task

• Write a query to calculate the average salary across all companies combined. Rename the column as avg\_salary.

Table name: Works

employee_id	company_name	salary
1	TechCorp	75000.00
2	InnovateLtd	62000.50
3	HealthPlus	54000.75
4	EduWorks	48000.00
5	GreenTech	68000.00
6	TechCorp	80000.00
7	InnovateLtd	66000.20
8	HealthPlus	50000.10
9	EduWorks	51000.00
10	GreenTech	72000.00

-- your code goes here
select avg(salary) as avg\_salary
from works ;

## Q4 -

## Locate People

## Task

• Write a query to retrieve the department\_name and location of people who live in location that starts with 'S'.

Table name: departments

department_id	department_name	location
1	Human Resources	New York
2	Research and Development	San Francisco
3	Sales	Los Angeles
4	Marketing	New York
5	Customer Support	Boston
6	Finance	Austin
7	IT Support	Seattle
8	Product Management	San Francisco
9	Quality Assurance	Los Angeles
10	Legal	Boston

-- your code goes here
select department\_name, location from departments
where location like 'S%';

#### Q5 -

## Distinct Companies

#### Task

Write a query to select all the distinct companies (company\_name) in the Works table.

Table name: Works

employee_id	company_name	salary
1	TechCorp	75000.00
2	InnovateLtd	62000.50
3	HealthPlus	54000.75
4	EduWorks	48000.00
5	GreenTech	68000.00
6	TechCorp	80000.00
7	InnovateLtd	66000.20
8	HealthPlus	50000.10
9	EduWorks	51000.00
10	GreenTech	72000.00

-- your code goes here
select distinct company\_name
from works

## Q6 -

## Fiction Collection Size

#### Task

Write a query to find the total count of books whose genre is Fiction.

Note: Output column name should be fiction\_count.

Table name: Books

	title	author	genre	price	<pre>published_year</pre>
1	The Great Gatsby	F. Scott Fitzgerald	Fiction	10.99	9 1925
2	1984	George Orwell	Dystopian	15.99	9 1949
3	To Kill a Mockingbird	Harper Lee	Fiction	12.99	9 1960
4	The Catcher in the Rye	J.D. Salinger	Fiction	14.99	9 1951
5	Brave New World	Aldous Huxley	Dystopian	13.99	9 1932
6	The Hobbit	J.R.R. Tolkien	Fantasy	9.99	1937
7	Moby Dick	Herman Melville	Fiction	18.50	0 1851
8	War and Peace	Leo Tolstoy	Historical	20.00	0 1869
9	The Picture of Dorian Gray	Oscar Wilde	Fiction	11.50	0 1890
10	The Alchemist	Paulo Coelho	Fiction	16.00	0 1988
13	l Fahrenheit 451	Ray Bradbury	Dystopian	12.50	0 1953

id t	citle	author	genre	price	published_year
12	The Chronicles of Narnia	C.S. Lewis	Fantasy	14.00	1950
13	The Handmaid's Tale	Margaret Atwood	Dystopian	15.50	1985
14	A Tale of Two Cities	Charles Dickens	Historical	13.00	1859
15	Little Women	Louisa May Alcott	Fiction	9.50	1868

-- your code goes here

select count(\*) as fiction\_count
from books
where genre = 'Fiction';

## Q7 -

## List of Movies with Ratings

Write a query to select only the movie names where the ratings are greater than 7 but less than 9.

Table: Cinema

Movie_id	Movie_name	Description	Rating
1	War	great 3D	8.9
2	Science	fiction	8.5
3	Irish	boring	6.2
4	Ice Song	Fantasy	8.6
5	House Card	Interesting	9.1
6	The Escape	Thriller	7.8
7	Solar Flare	Sci-Fi	8.3
8	The Joker	Drama	9.0
9	Lost Dreams	Mystery	7.5
10	Galaxy War	Action	8.7

-- your code goes here
select movie\_name
from cinema
where rating > 7 and rating < 9;</pre>

## Q8 -

## Handling NULL Values

## Task

Write a query to retrieve book\_id, title, author and published\_year of the books which have **NULL** rating for their books.

Table name: Library

Table Ha	me. hibiary			
$book\_id$	title	author	<pre>published_year</pre>	rating
1	The Great Gatsby	F. Scott Fitzgerald	1925	4.2
2	To Kill a Mockingbird	Harper Lee	1960	NULL
3	1984	George Orwell	1949	4.8

į	book_id t	itle	author	<pre>published_year</pre>	rating
	4	The Catcher in the Rye	J.D. Salinger	1951	NULL
	5	Brave New World	Aldous Huxley	1932	4.3

-- your code goes here
select book\_id, title, author, published\_year
from library
where rating is null;

## Q9 -

## Salary of Employees

Task

Create a query to retrieve the employee\_name, company, and salary for employees in the full-time category, ordered by salary in **descending** order

Table name: Employees

employee_id	employee_name	company	category	department	salary
1	John Smith	TechCorp	Full-Time	Engineering	80000
2	Alice Johnson	TechCorp	Part-Time	HR	30000
3	Bob Brown	FinServ	Full-Time	Finance	90000
4	Carol White	HealthPlus	Contract	IT	75000
5	David Green	TechCorp	Full-Time	Engineering	85000
6	Emma Blue	FinServ	Part-Time	Finance	32000
7	Frank Black	HealthPlus	Full-Time	HR	60000
8	Grace Grey	TechCorp	Full-Time	Marketing	70000
9	Henry Red	FinServ	Contract	IT	95000
10	Ivy Yellow	HealthPlus	Part-Time	Marketing	28000

--your code goes here

select employee\_name, company, salary
from employees
where category = 'Full-Time'
order by salary desc;

#### Q10 -

## Department of Each Employee

Write a query to group the employees by their department and display the total number of employees (as total employees) in each department.

Table name: Employees

Table Halle.	rubrolee2				
employee_id	employee_name	company	category	department	salary
1	John Smith	TechCorp	Full-Time	Engineering	80000
2	Alice Johnson	TechCorp	Part-Time	HR	30000
3	Bob Brown	FinServ	Full-Time	Finance	90000
4	Carol White	HealthPlus	Contract	IT	75000
5	David Green	TechCorp	Full-Time	Engineering	85000

employee_id	employee_name	company	category	department	salary
6	Emma Blue	FinServ	Part-Time	Finance	32000
7	Frank Black	HealthPlus	Full-Time	HR	60000
8	Grace Grey	TechCorp	Full-Time	Marketing	70000
9	Henry Red	FinServ	Contract	Sales	95000
10	Ivy Yellow	HealthPlus	Part-Time	Marketing	28000

<sup>--</sup> your code goes here

select department, count(\*) as total\_employees
from employees
group by department

## Q11 -

## Article views

#### Task

Write a query to retrieve the author\_id, author\_name, and publication\_name for authors whose articles got zero views. The result should be sorted by author\_id in ascending order.

Return the result table sorted by id in ascending order.

Table name: Views

Table name:	Views				
article_id	author_id	author_name	viewer_i	d view_count	publication_name
101	1	John Doe	1	3	The Daily Times
102	2	Jane Smith	2	1	Global News
103	3	Emily Clark	4	0	Tech Monthly
104	4	Mark Lewis	4	2	Health Digest
105	5	Sara White	3	0	The Business Journal
106	1	John Doe	2	0	The Daily Times
107	2	Jane Smith	2	2	Global News

-- your code goes here
select author\_id, author\_name, publication\_name
from views
where view\_count = 0
order by author id asc;

### 012 -

## Player Performance Insights

## Task

Write a query to find the names of the  $top\ 3$  distinct players by highest score who have  $won\ matches$ , including their scores.

## Expected Output Columns:

nlaren neme	oraniis.	2222	
player_name			
Table 1: Players			
player_id	player_name	score	rank
1	Alice	1200	5
2	Bob	1500	2
3	Charlie	1300	4
4	David	1600	1

player_id	player_name	score	rank	
5	Eve	1100	6	

Table 2: Matches

match_id	player1	player2	winner	match_date
101	Alice	Bob	Bob	2024-01-15
102	Charlie	David	David	2024-01-16
103	Eve	Bob	Bob	2024-01-17
104	Alice	David	David	2024-01-18
105	Charlie	Eve	Charlie	2024-01-19

-- your code goes here
select distinct player\_name, score
from players
order by score desc
limit 3;

#### Q13 -

## Player Details

## Task

Write a query to retrieve the details of the **last five matches** played, including the match ID, the names of the players who participated, the name of the winning player, and the final score of the winner.

Expected Output Columns:

match\_id player\_1 player\_2 winner match\_date score
There are two tables named Players and Matches.

Players Matches

player_id	player_name	score	rank
1	Alice	1200	5
2	Bob	1500	2
3	Charlie	1300	4
4	David	1600	1
5	Eve	1100	6
6	Frank	1450	3
7	Grace	1350	7
8	Hank	1250	9
9	lvy	1550	8
10	jack	1400	10

match_id	player_1	player_2	winner m	atch_date
101	Alice	Bob	Bob	2024-01-25
102	Charlie	David	David	2024-01-06
103	Eve	Bob	Bob	2024-01-17
104	Alice	David	David	2024-01-01
105	Charlie	Eve	Charlie	2024-01-15
106	Frank	Hank	Frank	2024-01-29
107	Grace	lvy	lvy	2024-01-10
108	Jack	Alice	Jack	2024-01-19
109	Bob	Charlie	Bob	2024-01-13
110	David	Eve	David	2024-01-24

Wallie - Flallay D Silali	Coucener SQL 11	obiems iviodule 1	
your code goes here select m.match_id, m.player_1, m.player_2	, m.winner, r	m.match_date,	p.score
<pre>from matches m inner join players p on p.player_name = m.wir order by match_date desc limit 5;</pre>	nner		
TIMIL 3,			