

**SQL**  
**PRACTICE QUESTIONS**  
**BEGINNER LEVEL**

**1.) TABLE NAME: EMPLOYEE DB**

EmpID	Name	Department	Salary	HireDate
1	Alice	IT	60000	2020-01-15
2	Bob	HR	45000	2019-03-10
3	Charlie	Finance	70000	2021-07-22
4	David	IT	55000	2020-11-05
5	Emma	Sales	50000	2022-04-18
6	Frank	Finance	65000	2020-09-12
7	Grace	HR	48000	2021-02-01

**Level 1 – Basics**

1. Select all employee details.
2. Show only the Name and Salary of all employees.
3. Find all employees who work in the IT department.
4. List employees whose salary is more than 55,000.
5. Show employees in order of their HireDate (oldest first).

**Level 2 – Clauses**

6. Show all unique department names from the Employees table.
7. Find employees hired between 2020-01-01 and 2020-12-31.
8. Find employees whose names start with "A".
9. List employees who work in either Finance or HR.

10. Show the top 3 highest paid employees.

### **Level 3 – Aggregations**

11. Count the total number of employees.

12. Find the average salary of employees in the IT department.

13. Show the total salary paid to employees in each department.

14. List departments where the average salary is greater than 60,000.

15. Find the highest salary in each department.

### **2.) TABLE NAME: EMPLOYEE DB**

EmpID	Name	Department	Salary	HireDate
1	Alice	IT	60000	15-01-2020
2	Bob	HR	45000	10-03-2019
3	Charlie	Finance	70000	22-07-2021
4	David	IT	55000	18-04-2020
5	Emma	Sales	50000	18-04-2022
6	Frank	Finance	65000	12-09-2020
7	Grace	HR	48000	01-02-2021
8	Hannah	IT	62000	05-11-2019
9	Ian	Sales	52000	30-06-2021
10	Jack	Finance	72000	20-08-2022

1. Show all employees.

2. Show employee names and their salaries.

3. Show all employees from IT department.

4. Show employees earning more than 55,000.

5. Show employees hired in 2020.

6. List distinct departments.

7. Show employees hired after 2021-01-01.
8. Show employees whose names start with “A”.
9. Show employees whose names end with “a”.
10. Show employees whose salary is between 50,000 and 65,000.
11. Show employees from HR or Finance.
12. Count how many employees are in the company.
13. Find the average salary in the IT department.
14. Find the maximum salary in Finance.
15. Show total salary by department.
16. Show average salary by department, only if it’s above 60,000.
17. Show top 3 highest paid employees.
18. Show employees ordered by hire date (oldest first).
19. Show employees ordered by department (A→Z) and salary (high→low).
20. Show employees not in the Sales department.

### **3.) TABLE NAME: PRODUCTS DB**

product_id		product_name	category	price	stock
1		Laptop	Electronics	50000	20
2		Smartphone	Electronics	30000	50
3		Tablet	Electronics	20000	35
4		Chair	Furniture	4000	100
5		Desk	Furniture	8000	40
6		Pen	Stationery	20	500
7		Notebook	Stationery	50	300
8		Headphones	Electronics	2000	80
9		Printer	Electronics	15000	15
10		Cupboard	Furniture	12000	25

1. Show all products.
2. Show product names and prices.
3. Show products in Electronics category.
4. Show products priced above 10,000.
5. Show products with stock less than 30.
6. List distinct categories.
7. Show products whose price is between 2,000 and 20,000.
8. Show products in category Furniture or Stationery.
9. Count how many products are in the table.
10. Find the average price of all products.
11. Find the maximum price in Furniture.
12. Find the total stock of all Electronics items.
13. Show total stock by category.
14. Show average price by category.
15. Show categories where average price is above 10,000.
16. Show the top 5 most expensive products.
17. Show products ordered by price (low → high).
18. Show products ordered by category and stock (high → low).
19. Show products not in Electronics.
20. Show products whose name contains the word “book”.

#### **4.) TABLE NAME: STUDENTS DB**

student_id	name	age	gender	grade	enrollment_date	city
1	Amit	18	Male	A	10-06-2021	Delhi
2	Priya	20	Female	B	12-03-2020	Mumbai
3	Rahul	19	Male	C	15-01-2022	Chennai
4	Sneha	22	Female	A	01-09-2019	Delhi
5	Vikram	21	Male	B	20-07-2021	Kolkata
6	Kiran	18	Female	C	18-08-2022	Delhi
7	Arjun	23	Male	B	11-05-2018	Bangalore
8	Meena	20	Female	A	05-02-2021	Mumbai
9	Suresh	19	Male	C	25-11-2020	Hyderabad
10	Divya	22	Female	B	01-04-2022	Chennai

1. Show students older than 20.
2. Show students younger than 20.
3. Show students exactly 18 years old.
4. Show students not equal to age 19.
5. Show students with grade = 'A'.
6. Show students with grade != 'C'.
7. Show male students from Delhi.
8. Show female students from Mumbai.
9. Show students whose age is > 18 AND grade = 'B'.
10. Show students whose grade = 'A' OR age < 20.
11. Show students not from Chennai.
12. Show students with age BETWEEN 18 AND 20.
13. Show students enrolled BETWEEN '2020-01-01' AND '2021-12-31'.
14. Show students from cities IN ('Delhi','Mumbai').

15. Show students from cities NOT IN ('Hyderabad','Kolkata').
16. Show students whose names start with 'A'.
17. Show students whose names end with 'a'.
18. Show students whose names contain 'ri'.
19. Show students whose second letter is 'r'.
20. Show students whose age is  $\geq 22$ .
21. Show students whose enrollment\_date is after '2021-01-01'.
22. Show students whose enrollment\_date is before '2020-01-01'.
23. Show students with grade IN ('B','C').
24. Show students with grade NOT IN ('A').
25. Show students from Delhi OR Bangalore.
26. Show students with age  $> 20$  AND city = 'Chennai'.
27. Show students whose name LIKE 'S%'.
28. Show students whose name LIKE '%h'.
29. Show students whose name LIKE '\_i%'.
30. Show students not in Delhi AND not in Mumbai.
31. Show students from Delhi AND with grade = 'A'.
32. Show students aged  $< 20$  OR enrolled after '2021-01-01'.
33. Show female students whose name starts with 'S'.
34. Show male students NOT from Bangalore.
35. Show students whose grade = 'B' AND age BETWEEN 20 AND 23.

36. Show students whose enrollment\_date is NOT BETWEEN '2020-01-01' AND '2021-12-31'.

37. Show students whose city IN ('Delhi','Mumbai') AND age > 18.

38. Show students whose city NOT IN ('Chennai','Kolkata') OR grade = 'C'.

39. Show students whose name LIKE '%n%' AND age < 22.

40. Show students whose name does NOT start with 'A' AND grade != 'C'.

### **5.) TABLE NAME: ORDERS DB**

order_id	customer_name	product	quantity	price	order_date	status
1	Ravi	Laptop	1	50000	15-03-2021	Delivered
2	Sita	Phone	2	30000	20-07-2020	Pending
3	Aman	Tablet	1	20000	10-01-2022	Delivered
4	Geeta	Chair	4	4000	01-12-2019	Cancelled
5	Manoj	Desk	2	8000	14-09-2021	Delivered
6	Anita	Laptop	1	55000	20-04-2022	Pending
7	Sunil	Printer	1	15000	30-05-2020	Delivered
8	Neha	Phone	3	28000	05-11-2021	Delivered
9	Arun	Headphones	5	2000	17-06-2022	Pending
10	Kavita	Cupboard	1	12000	25-02-2020	Cancelled

1. Show all orders where price > 20000.
2. Show all orders where price < 10000.
3. Show orders with quantity = 1.
4. Show orders with quantity != 1.
5. Show orders where status = 'Delivered'.
6. Show orders where status != 'Cancelled'.
7. Show orders with price >= 30000 AND status = 'Pending'.
8. Show orders with price < 15000 OR status = 'Cancelled'.

9. Show orders NOT with status = 'Pending'.
10. Show orders placed BETWEEN '2021-01-01' AND '2021-12-31'.
11. Show orders placed BETWEEN '2020-01-01' AND '2020-12-31'.
12. Show orders where product IN ('Laptop','Phone').
13. Show orders where product NOT IN ('Desk','Chair').
14. Show orders where customer\_name starts with 'A'.
15. Show orders where customer\_name ends with 'a'.
16. Show orders where customer\_name contains 'ni'.
17. Show orders where product LIKE 'C%'.
18. Show orders where product LIKE '%p'.
19. Show orders where product LIKE '\_\_a%'.
20. Show orders where status IN ('Delivered','Pending').
21. Show orders where price BETWEEN 10000 AND 30000.
22. Show orders where quantity BETWEEN 2 AND 4.
23. Show orders with order\_date before '2020-06-01'.
24. Show orders with order\_date after '2022-01-01'.
25. Show orders where product = 'Laptop' AND price > 50000.
26. Show orders where customer\_name NOT LIKE 'A%'.
27. Show orders where product NOT LIKE '%e'.
28. Show orders where status = 'Cancelled' OR price > 40000.
29. Show orders where NOT (status = 'Delivered').
30. Show orders where price < 10000 AND quantity > 2.



31. Show orders with status = 'Delivered' AND price > 30000.
32. Show orders with quantity > 2 OR price < 5000.
33. Show orders with product LIKE 'P%' AND status != 'Cancelled'.
34. Show orders where customer\_name NOT IN ('Ravi','Sita') AND price > 20000.
35. Show orders with product IN ('Laptop','Tablet') AND quantity = 1.
36. Show orders where price BETWEEN 15000 AND 50000 AND status = 'Pending'.
37. Show orders where order\_date NOT BETWEEN '2021-01-01' AND '2022-12-31'.
38. Show orders where customer\_name LIKE '%n%' AND product != 'Printer'.
39. Show orders where quantity >= 3 AND status NOT IN ('Cancelled','Pending').
40. Show orders where product NOT LIKE '%p' AND price <= 15000.

**Note: More practice questions related to SQL will be uploaded soon.**