A. Basic Queries (Beginner Level)

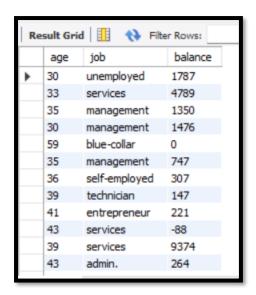
1. View all records:

SELECT * FROM bank.bank;



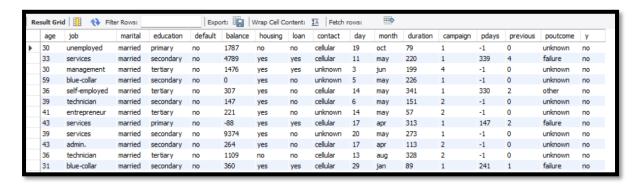
2. Select specific columns (e.g., age, job, and balance):

SELECT age, job, balance FROM bank.bank;



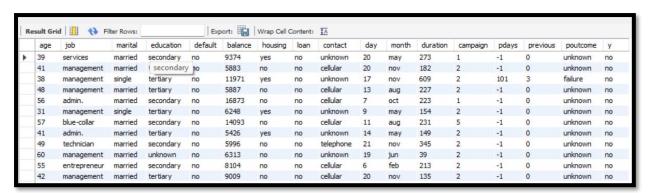
3. Filter clients who are married:

SELECT * FROM bank.bank WHERE marital = 'married';



4. Filter clients with a balance greater than 5000:

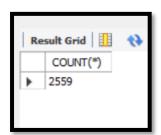
SELECT * FROM bank.bank WHERE balance > 5000;



B. Intermediate Queries:

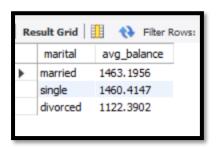
1. Count the number of clients with a housing loan:

SELECT COUNT(*)
FROM bank.bank
WHERE housing = 'yes';



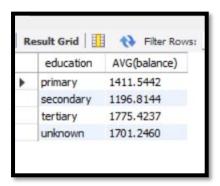
2. Find the average balance of clients based on marital status:

SELECT marital, AVG(balance) AS avg_balance FROM bank.bank GROUP BY marital;



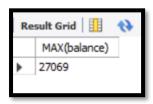
3. Find the average balance of customers for each education level:

SELECT education, AVG(balance) FROM bank.bank GROUP BY education;



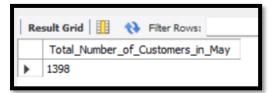
4. Find the maximum balance among customers with personal loans:

SELECT MAX(balance) FROM bank.bank WHERE loan = 'yes'



5. Find the number of customers contacted in May:

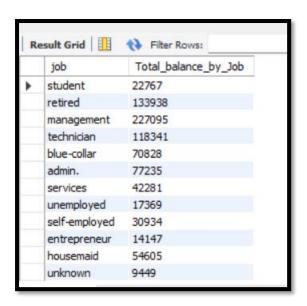
SELECT COUNT(*) as Total_Number_of_Customers_in_May FROM bank.bank
WHERE month = 'may';



C. Advanced:

1. Find the total balance of customers who subscribed to a term deposit (y = 'yes'), grouped by job type:

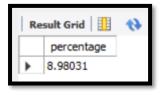
SELECT job, SUM(balance) as Total_balance_by_Job FROM bank.bank WHERE y = 'yes' GROUP BY job;



2. Calculate the percentage of customers who have a personal loan and housing loan:

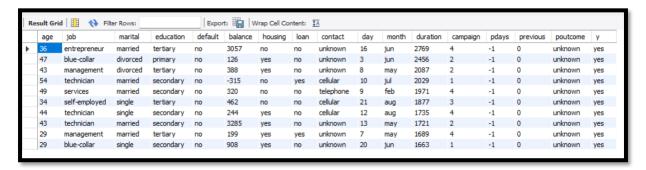
SELECT (COUNT(*) * 100.0 / (SELECT COUNT(*) FROM bank.bank)) AS percentage FROM bank.bank

WHERE loan = 'yes' AND housing = 'yes';



3. Identify the customers with the longest duration of last contact who subscribed to a term deposit:

SELECT *
FROM bank.bank
WHERE y = 'yes'
ORDER BY duration DESC
LIMIT 10;



4. Find the relationship between education and the number of previous contacts in the previous campaign:

SELECT education, AVG(previous) FROM bank.bank GROUP BY education ORDER BY AVG(previous) DESC;

