

Basic SELECT & Filtering

Q1.List the names and ages of all clients under 30 years old.

```
SELECT name, age
```

```
FROM clients_banking
```

```
WHERE age < 30;
```

Q2.Show the top 5 clients with the highest estimated income.

```
SELECT client_id, name, estimated_income
```

```
FROM clients_banking
```

```
ORDER BY 2 DESC
```

```
LIMIT 5;
```

Q3.Retrieve clients who joined the bank before 2010.

```
SELECT
```

```
    client_id,
```

```
    EXTRACT(YEAR FROM joined_bank) AS date_joined
```

```
FROM clients_banking
```

```
WHERE EXTRACT(YEAR FROM joined_bank) < 2010;
```

-----OR-----

```
SELECT client_id, name, joined_bank
```

```
FROM clients_banking
```

```
WHERE joined_bank < DATE '2010-01-01';
```

Joins Qns

Q4.List each clients name along with their gender.

```
SELECT cb.name, g.gender
FROM clients_banking cb
JOIN gender g
ON cb.genderid = g.genderid;
```

Q5.Show each clients name,age,and type of banking relationship.

```
SELECT
    cb.name,
    cb.age,
    br.banking_relationship
FROM clients_banking cb
JOIN banking_relationship br
ON cb.brid = br.brid;
```

Q6.Display clients and their assigned investment advisor names.

```
SELECT
    cb.name,
    ia.investment_advisor
FROM clients_banking cb
JOIN investment_advisor ia
ON cb.iaid = ia.iaid;
```

Aggregates Qns

Q7.What is the average estimated income of all clients?

SELECT

ROUND(AVG(estimated_income)::numeric,0) AS avg_est_income

FROM clients_banking;

Q8.How many clients have more than one property?

SELECT

name,

COUNT(DISTINCT client_id) AS total_count,

properties_owned

FROM clients_banking

WHERE properties_owned > 1

GROUP BY 1,3;

Q9.Find the total savings(Saving Accounts) by gender.

SELECT

g.gender,

ROUND(SUM(cb.saving_accounts)::numeric,0) AS total_saving

FROM gender g

JOIN clients_banking cb

ON g.genderid = cb.genderid

GROUP BY 1;

Group by

Q10.Group clients by banking relationship and show the average bank loan for each group.

SELECT

 cb.client_id,

 br.banking_relationship,

 AVG(cb.bank_loans) AS avg_bank_loans

FROM clients_banking cb

JOIN banking_relationship br

ON cb.brid = br.brid

GROUP BY 1,2;

Q11.Count how many clients each investment advisor manages.

SELECT

 ir.investment_advisor,

 COUNT(cb.client_id) AS client_count

FROM investment_advisor ir

JOIN clients_banking cb

ON ir.iaid = cb.iaid

GROUP BY 1

ORDER BY 2 DESC;

Advanced Query

Q12.Find the top 3 locations(Location ID) with the highest total business lending.

```
SELECT
    location_id,
    SUM(business_lending) AS total_business_lending
FROM clients_banking
GROUP BY 1
ORDER BY 2 DESC
LIMIT 3;
```

Q13.List all Female clients who have more than \$500,000 is savings.

```
SELECT
    g.gender,
    cb.saving_accounts
FROM gender g
JOIN clients_banking cb
ON g.genderid = cb.genderid
WHERE cb.saving_accounts > 500000;
```

Q14.What's the correlation between Age and Bank loans for clients with Gold loyalty classification?

```
SELECT
    CORR(age, bank_loans) AS age_loan_correlation
FROM clients_banking
WHERE loyalty_classification = 'Gold';
```

Q15.List all client names and their gender.

```
SELECT
    cb.name,
    g.gender
FROM clients_banking cb
JOIN gender g
ON cb.genderid = g.genderid;
```

Q16.Show clients who joined the bank after 2015

```
SELECT name, joined_bank
FROM clients_banking
WHERE joined_bank > '12-31-2015';
```

-----OR-----

```
SELECT
    name,
    EXTRACT(YEAR FROM joined_bank) AS joined_year
FROM clients_banking
WHERE EXTRACT(YEAR FROM joined_bank) > 2015;
```

Q17.Get the total number of clients by gender

```
SELECT
    g.gender,
    COUNT(cb.client_id) AS total_client
FROM gender g
JOIN clients_banking cb
```

ON g.genderid = cb.genderid

GROUP BY 1;

Q18. List the top 10 clients with the highest total bank deposits

SELECT

 name,

 SUM(bank_deposits) AS total_bank_deposits

FROM clients_banking

GROUP BY 1

ORDER BY 2 DESC

LIMIT 10;

Q19. Show the number of clients per banking relationship type

SELECT

 br.banking_relationship,

 COUNT(cb.client_id) AS client_count

FROM banking_relationship br

JOIN clients_banking cb

ON br.brid = cb.brid

GROUP BY 1;

Q20.Find the average saving account balance grouped by occupation

```
SELECT
    occupation,
    ROUND(AVG(saving_accounts)::numeric,0) AS avg_saving_accounts
FROM clients_banking
GROUP BY 1;
```

Q21.Which investment advisor manages the most clients?

```
SELECT
    ia.investment_advisor,
    COUNT(cb.client_id) AS total_client
FROM investment_advisor ia
JOIN clients_banking cb
ON ia.iaid = cb.iaid
GROUP BY 1
ORDER BY 2 DESC
LIMIT 1;
```

Q22.List all clients who have more than 2 million in business lending

```
SELECT
    name,
    business_lending
FROM clients_banking
WHERE business_lending > 2000000;
```

Q23.Find the average age of clients for each loyalty classification.

SELECT

loyalty_classification,

AVG(age) AS avg_age

FROM clients_banking

GROUP BY 1;

Q24.Which nationality has the highest average foreign currency account balance?

SELECT

nationality,

AVG(foreign_currency_account) AS avg_foreign_currency

FROM clients_banking

GROUP BY 1

ORDER BY 2 DESC

LIMIT 1;

Advanced Qns

Q25.Find the client with the highest total across all types of accounts.

SELECT

name,

(checking_accounts + saving_accounts + foreign_currency_account) AS total_balance

FROM clients_banking

ORDER BY total_balance DESC

LIMIT 1;

Q26. Calculate the risk-weighted score for each client.

```
SELECT
    name,
    (risk_weighting * bank_deposits) AS risk_weighted_score
FROM clients_banking;
```

Q27. Which gender has the highest average total deposits (savings + checking + business lending)?

```
SELECT
    g.gender,
    AVG(saving_accounts + checking_accounts + business_lending) AS avg_total_deposits
FROM clients_banking cb
JOIN gender g
ON cb.genderid = g.genderid
GROUP BY 1
ORDER BY 2 DESC
LIMIT 1;
```

Q28. List the investment advisors and the total properties owned by their clients.

```
SELECT
    ia.investment_advisor,
    SUM(cb.properties_owned) AS total_properties
FROM clients_banking cb
JOIN investment_advisor ia
ON cb.iaid = ia.iaid
GROUP BY 1
```

ORDER BY 2 DESC;

Q29. Find clients who own no properties and have a risk weighting above 3.

SELECT

 name,

 risk_weighting,

 properties_owned

FROM clients_banking

WHERE properties_owned = 0 AND risk_weighting > 3;