## **SQL Banking Assignment**

### 1. Fetch the transaction id, date and amount of all debit transactions

Select transaction\_id, transaction\_date, transaction\_amount from Transactions where credit\_debit\_flag = 'D';

transaction_id integer	transaction_date date	transaction_amount double precision
3	2024-07-29	50
6	2024-07-28	100
10	2024-07-25	200

2. Fetch male employees who earn more than 5000 salaries.

select emp\_name from employees where salary > 5000 and gender= 'M';



3. Fetch employees whose name starts with J or whose salary is greater than or equal to 70000 select emp\_name from employees

where salary > 70000 or Upper(emp\_name) like 'J%';



4. Fetch accounts with balance in between 1000 to 3000

select \* from accounts where balance between 1000 and 3000;

account_no [PK] bigint	balance integer	account_status character varying (10)	date_of_opening date
1100444104	1100	Active	2022-10-15
1100444105	2200	Active	2022-12-10

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#### 5. Find customers who did not provide a phone no

select \* from customers where phone is Null;

customer_id [PK] character varying (10)	first_name character varying (40)	last_name character varying (40)	phone bigint	address character varying (200)	dob date
C5	Steven	Smith	[null]	Chennai	1994-12-20
C6	Jason	Holder	[null]	Chennai	1995-02-01

#### 6. Find all the different products purchased by the customers

select ca.customer\_id, concat(cs.first\_name, '',cs.last\_name) as customer\_name, pr.prod\_name from customer\_accounts ca join products pr on ca.prod\_id= pr.prod\_id join customers cs on ca.customer\_id=cs.customer\_id group by 1,2,3 order by 1;

customer_id character varying (10)	customer_name text	prod_name character varying (100)
C1	Satya Sharma	Home Loan
C1	Satya Sharma	Personal Loan
C1	Satya Sharma	Savings Account
C2	Jaswinder Singh	Current Account
C3	Satya Sharma	Current Account

# 7. Sort all the active accounts with product name, customer\_id & customer\_name based on highest balance and based on the earliest opening date

select a.account\_no, a.balance, a.date\_of\_opening, pr.prod\_name,
ca.customer\_id,concat(cs.first\_name, '',cs.last\_name) as customer\_name from accounts a
join customer\_accounts ca
on a.account\_no = ca.account\_no
join customers cs
on ca.customer\_id= cs.customer\_id
join products pr
on ca.prod\_id = pr.prod\_id
where lower(account\_status) = 'active'
order by balance desc, date\_of\_opening, customer\_id asc;

account_no bigint	balance integer	date_of_opening date	prod_name character varying (100)	customer_id character varying (10)	customer_name text
1100444106	3300	2022-11-05	Current Account	C3	Satya Sharma
1100444105	2200	2022-12-10	Current Account	C2	Jaswinder Singh
1100444104	1100	2022-10-15	Personal Loan	C1	Satya Sharma
1100444102	900	2020-01-10	Home Loan	C1	Satya Sharma
1100444103	500	2021-11-21	Personal Loan	C1	Satya Sharma
1100444101	100	2020-01-01	Savings Account	C1	Satya Sharma

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#### 8. Fetch the oldest 5 transactions.

select \* from transactions
order by transaction\_date asc
limit 5;

transaction_id integer	transaction_date date	transaction_amount double precision	credit_debit_flag character varying (1)	account_no bigint
10	2024-07-25	200	D	1100444105
9	2024-07-25	100	С	1100444105
8	2024-07-26	200	С	1100444104
7	2024-07-27	100	С	1100444103
6	2024-07-28	100	D	1100444102

9. Find customers who are either from Bangalore/Chennai and their phone number is available OR those who were born before 1990

select first\_name, last\_name, phone, address, dob from customers where address in ('Bangalore', 'Chennai') and phone is not null or extract(year from dob)<1990

first_name character varying (40)	last_name character varying (40)	phone bigint	address character varying (200)	dob date
Satya	Sharma	9900889911	Bangalore	1990-03-01
Jaswinder	Singh	9900889922	Mumbai	1980-03-24

10. Categorise accounts based on their balance. [Below 1k is Low balance, between 1k to 2k is average balance, above 2k is high balance]

select account\_no, balance,
case
when balance < 1000 then 'Low'
when balance between 1000 and 2000 then 'Average'
when balance > 2000 then 'High'
end as Category
from accounts
order by balance desc;

account_no [PK] bigint	balance integer	category text
1100444106	3300	High
1100444105	2200	High
1100444104	1100	Average
1100444102	900	Low
1100444103	500	Low
1100444101	100	Low