

MySQL FINAL TEST (50M)

Duration: 60 mins

Answer Sheet Instructions (For All Students – Online & Offline)

1. Write the question first, followed by your answer below it.
2. Use proper question numbers and maintain the order.
3. Code answers (C/SQL) must be neat, properly indented, and syntactically correct.

Database Creation & Table Management

Data Insertion

Branch Table

id	branch_name
1	Andheri
2	Bandra
3	Thane
4	Navi Mumbai
5	Dadar

Account Table

id	account_type	balance	branch_id
1	Savings	75000	1
2	Current	120000	1
3	Savings	85000	2
4	Current	95000	2
5	Fixed	200000	3
6	Savings	65000	3
7	Current	90000	4
8	Savings	72000	5

Customer Table

id	name	age	branch_id	account_id	joined_date	city
1	Raj	28	1	1	2022-03-15	Mumbai
2	Sneha	30	1	2	2021-07-22	Delhi
3	Anjali	35	2	3	2023-01-10	Mumbai
4	Karan	32	2	4	2022-06-05	Delhi
5	Ritesh	40	3	5	2019-11-25	Mumbai
6	Pooja	33	3	6	2021-08-13	Delhi
7	Rohit	29	4	7	2024-02-01	Mumbai
8	Meera	27	5	8	2023-10-10	Delhi

SECTION-1: Specific Queries (30M)

☐ **Create Tables and Insert Records** (10 Marks)

Write SQL queries to create the customer, branch, and account tables and insert the data provided

☐ **Find the Branch with the Highest Number of Customers** (5 Marks)

Write a query to identify the branch with the most customers. The output should include:

- Branch Name
- Total Number of Customers

☐ **Create a View to Display Account Count per Branch** (5 Marks)

Write a query to create a view that shows the number of accounts per branch. The output should include:

- Branch Name
- Total Accounts

☐ **Display Customers Living in the Same City** (5 Marks)

Write a query to list customers who live in the same city. The output should group customers by city and include their:

- ID
- Name
- Age
- Branch Name

☐ **List Customers with Above-Average Account Balance in Their Branch** (5 Marks)

Write a query to find customers whose account balance is higher than the average balance of their respective branch. The output should include:

- Customer ID
- Customer Name
- Balance
- Branch Name

SECTION-2: PL/SQL Tasks (20M)

1. **Function** (10 Marks)

Create a function that returns the nth highest account balance in the account table.

2. **Theory Question** (10 Marks)

Explain **Cursor** and **Trigger** in detail with suitable examples.