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# Persistence Tier – Day 2

## SQL Server

### High Level Design

<1.0> | <Date>



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## Revision History

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Ver	Change description	De-	Sections	Date	Author	Reviewer
1.0						
0.2						
0.1						

## References

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The reader should read this document in conjunction with the following documents:

No	Document Name	Ver.	Location
1			
2			

## Abbreviation

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The following abbreviations have been used in this document:

Abbreviation	Expansion	Remarks

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## 1 Objective

### 1 Assignment 1: Database Exercises

**Following are the queries to be generated using the tables created yesterday.**

1. The RBI wants a query to display all unique pin codes from the ACCOUNT table.
2. RBI wants more descriptive column headings for its report on Account. Name the column headings Account #, Login, Balance Maintained, and Debit card No etc.
3. RBI needs a report that displays the last name and balance of Account holders whose minimum balance is more than Rs :- 25,000.
4. Create a report that displays the Name and Login Id for Account Number 176.
5. RBI needs to find high and low minimum balances. Display the Account Id, and Account Type for all the accounts whose Balance is not between Rs: 5,000 and Rs: 10,000.
6. Create a report to display the user name, User Type, and DOB for the User name with the last names of Matos and Taylor. Order the query in ascending order by the DOB.
7. Display the user name and Account number of all users whose city is 'Bangalore' or 'Chennai' in ascending alphabetical order by name.
8. To display the user name and balance of the account whose balance is between Rs: 5,000 and Rs:10,000, and are in City 'Bangalore' or 'Chennai'. Label the columns Account Holder and Balance Maintained, respectively.
9. RBI needs a report that displays the User name and DOB for all Account Holders who were born in 1984.
10. Create a report to display the user name and Account Number of all users whose account type is savings\_corporate.
11. Create a report to display the user name, amount, and transaction mode of all users who has made the transaction\_type=deposit. Sort data in descending order of amount. Use the column's numeric position in the ORDER BY clause.
12. Write a query to display the system date. Label the column as Date.

13. RBI needs a report to display the Account number, Name, Minimum Balance, and Revised Balance decreased by 15.5% (expressed as a whole number) for each Account. Label the column Revised Balance.
14. Write a query that displays the user name and the length of the user name for all users whose name starts with the letters "J," "A," or "M." Give each column an appropriate label. Sort the results by the users' last names.
15. Create a query to display the user name and balance for all employees. Format the balance to be 15 characters long, left-padded with the Rs. symbol. Label the column as balance.
16. Create a query that displays the first eight characters of the users' name and indicates the amounts of their balance with asterisks. Each asterisk signifies a thousand Rupees. Sort the data in descending order of balance. Label the column as USERS\_AND\_THEIR\_BALANCE.
17. Find the highest, lowest, sum, and average Balance of all Users. Label the columns as Maximum, Minimum, Sum, and Average, respectively. Round your results to the nearest whole number.
18. Write a query to display the number of people with the same Account Type.
19. Create a report to display the Account type and the Lowest Balance of the account for that Account Type. Exclude any account where the minimum salary is Rs: 6,000 or less.
20. Create an INSERT statement to add the first row of data to the Account table from the following sample data. Do not list the columns in the INSERT clause. Do not enter all rows yet.

Ac- cou nt No	Account Type	Debit Card Num- ber	Pi n	Bal- anc e
1	Current	4567 5430 2345 6578	7 8 9 8	895 0
2	Sav- ings_Corpor ate	4567 5430 2278 6932	5 7 6 8	860 0
3	Current	4567 5430 1234	1 2 5	110 00

		0987	7	
4	Current	4567 5658 2345 3918	0 1 9 2	750 0
5	Sav- ings_Corpor ate	47295 430 2345 6578	6 7 6 7	155 00

21. Populate the Account table with the second row of the sample data from the preceding list. This time, list the columns explicitly in the INSERT clause.

22. Confirm your addition to the table.

**Update and delete data in the MY\_EMPLOYEE table.**

23. Change the balance of Account 3 to 34000.

24. Change the balance to 11,000 for all accounts whose a balance is less than 10000

25. Verify your changes to the table.

26. Delete account holder with balance 15500 from the account table.

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