

Output

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	empno	empname	empaddress	deptno
1	1	Ram	Kathmandu	10

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	rollno	firstname	lastname	address	phoneno	obtained_marks	result
1	1	Suman	NULL	NULL	9812345678	85	PASS

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Results		Messages			
	acno	custid	type	branch	balance
1	101	1	Saving	Kathmandu	5000
2	102	2	Current	Pokhara	12000

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Results		Messages			
	acno	custid	type	branch	balance
1	101	1	Saving	Kathmandu	6000
2	101	1	Saving	Kathmandu	6000
3	103	3	Saving	Butwal	8000
4	102	2	Current	Pokhara	12000
5	102	2	Current	Pokhara	12000

Results		Messages			
	acno	custid	type	branch	balance
1	102	2	Current	Pokhara	12000
2	102	2	Current	Pokhara	12000
3	101	1	Saving	Kathmandu	6000
4	101	1	Saving	Kathmandu	6000
5	103	3	Saving	Butwal	8000

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Results		Messages			
	Total_Accounts	Total_Balance	Avg_Balance	Max_Balance	Min_Balance
1	5	44000	8800	12000	6000

Click to select the whole column

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Results		Messages			
	address	Total_Marks			
1	Butwal	60			
2	Kathmandu	75			

Results		Messages			
	address	Total_Students			
1	Butwal	1			
2	Kathmandu	1			

Results		Messages			
	address	Total_Students			
1	Butwal	1			
2	Kathmandu	1			

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Results Messages		
	department	Total_Salary
1	Finance	8000
2	HR	12500
3	IT	11000

Results Messages		
	department	Salary_Count
1	Finance	1
2	HR	2
3	IT	2

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Results Messages					
	empid	empname	designation	salary	deptno
1	1	Manjil	Manager	8000	10

	empname	designation	salary
1	Tina	Clerk	4000
2	Tom	Clerk	6000

Results Mess	
	empname
1	Tom
2	Ram
3	Shyam

Results Messages					
	empid	empname	designation	salary	deptno
1	2	Tina	Clerk	4000	20
2	3	Tom	Clerk	6000	10
3	4	Ram	DGM	12000	30
4	5	Shyam	Clerk	3000	20

Results		Messages
	empname	
1	Tom	

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Results		Messages
	empname	salary
1	Sita	6000

Results		Messages	
	empname	salary	deptno
1	Ram	4000	d101

Results		Messages
	empname	salary
1	Shyam	8000
2	Sita	6000
3	Gita	12000

Results		Messages
	empname	salary
1	Ram	4000
2	Hari	3000

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Results

Messages

	sid	nname	rollno	sum	marks
1	1	Ram	101	50	10
2	2	Sita	102	60	20
3	3	Gita	103	40	15
4	4	Hari	104	70	25
5	5	Shyam	105	80	30

A Lab Report On
Database management system
Faculty of Humanities and Social Science
Tribhuvan University



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Department of Bachelor of Computer Application (BCA 4th Semester)

Southwestern State College

In the partial fulfilment of the requirements of the degree of Bachelor of Computer Application
(BCA 4th Semester)

Basundhara, Kathmandu

Table of content

Database Fundamentals

- 1 – Create database "collage"
- 2 – Create schemas BCA and BIM
- 3 – Create table Student in default, BIM, and BCA schemas
- 4 – DDL Operations (Create, Drop, Alter, Rename, Truncate) on Employee table
- 5 – DML Operations (Insert, Select, Update, Delete) on Employee table
- 6 – Create Student table with constraints (NOT NULL, UNIQUE, CHECK, DEFAULT)
- 7 – Create Employee and Department tables with PRIMARY KEY and FOREIGN KEY
- 8 – Advanced Table Operations (Drop table/database/constraint, Add/Drop/Alter columns, Modify datatype)

Advanced Queries and Joins

- 9 – Create "Account" table and perform DML operations
- 10 – Order data using ORDER BY clause
- 11 – Aggregate functions
- 12 – Student table: Group By and Filtering queries
- 13 – Employee table: Group By and Conditional queries
- 14 – Joins (Inner, Outer, Cross)
- 15 – Nested Queries (Subqueries) on employee_detail table
- 16 – Set Comparison between employee_detail and department tables
- 17 – VIEW: Create and use views on Employee table

Stored Procedures, Triggers, and Indexes

- 18 – Stored Procedures on STUDENT table (Create, Display, Delete, Update, Modify, List, Encryption, Parameters)
- 19 – Return data from stored procedures (Result sets, Output parameters, Return codes)

20 – Triggers (DDL and DML Triggers)

21 – Trigger to auto-update sum on insert (Enable/Disable trigger)

22 – Multirow Enabled Row Trigger

23 – Indexes (Clustered, Non-clustered, Filtered, Alter/Drop)