

UCCC & SPBCBA & SDHG COLLEGE OF BCA AND IT

CLASS : F.Y.B.C.A & F.Y.B.C.A (AI & DA)

1st Semester

SUBJECT: Practical -(105) Data processing and Analysis

JOURNAL (A.Y.2026-27)

Sr. No.	Description	Page No.	Sign																
1.	Create a worksheet for the following Field. Employee <table><tr><th>EMP No</th><th>EMP Name</th><th>Designation</th><th>Salary</th></tr><tr><td>101</td><td>M. D. SHAH</td><td>Manager</td><td>42000</td></tr><tr><td>102</td><td>J.H.PATEL</td><td>Programmer</td><td>25000</td></tr></table> INSTRUCTION: 1. Add at least 5 records. 2. Set the column width and row height appropriately. 3. Use merge cell as desired. 4. Format Cells Rs. Sign with two decimal places in Total Salary Column. 5. Add Bonus column If Salary<=10000 Bonus=10%, else 20%. 6. Total Salary=Salary + Bonus. 7. Calculate average Salary and Bonus. 8. Find maximum Salary and Bonus. 9. Protect the sheet. 10. Save the file with name Employee Report.	EMP No	EMP Name	Designation	Salary	101	M. D. SHAH	Manager	42000	102	J.H.PATEL	Programmer	25000						
EMP No	EMP Name	Designation	Salary																
101	M. D. SHAH	Manager	42000																
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2.	Create a worksheet for the following Field. Product_Purchase_Report <table><tr><th>Product</th><th>Quantity</th><th>Price/Unit</th><th>Total Price</th></tr><tr><td>Computer</td><td>100</td><td>30000</td><td></td></tr><tr><td>Laptop</td><td>250</td><td>45000</td><td></td></tr><tr><td>Keyboard</td><td>1400</td><td>20000</td><td></td></tr></table> INSTRUCTION: 1. Create the worksheet with green label 2. Insert at least 10 records. 3. Find Product Which has Minimum Price. 4. Display records with Quantity >1000. 5. Calculate Total Price. 6. Highlight Quantity >150. 7. Draw a 3D Column Chart of Product Vs Quantity.	Product	Quantity	Price/Unit	Total Price	Computer	100	30000		Laptop	250	45000		Keyboard	1400	20000			
Product	Quantity	Price/Unit	Total Price																
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	8. Change Back Color of Chart Area. 9. Format the header row and freeze it. 10. Protect the sheet from unauthorized access.		
3.	Create a worksheet contains Roll Number, Marks in subjects (CPPM, DPA, MATHS) for 20 students in a class. Calculate Result and Grade using the following. 1. A Student is declared as pass if he gets 40 or more in all subjects,otherwise fail. 2. All failed students will be given Grade IV for Passed students. Grade will be obtained as follows: AVERAGE GRADE >=60 I =50 II =40 III 3. Create 3D bar chart. 4. Chart title : Student Mark sheet. 5. Change back color of chart. 6. Change all the colors of bars. 7. Protect the sheet from unauthorized access.		
4.	Create Sales table with appropriate constraints with following fields: Salesman_id, Name, Product_no, prod_name, Qty, Date. 1. Insert at least 10 records in table. 2. Display Salesman details selling 'Laptop'. 3. Display sales transactions between 14-02-2025 and 02-06-2025. 4. Add new column Total. 5. Display Salesman details in descending order of Qty. 6. Update Rate of Product 'Keyboard' by +1500. 7. Change the value of Total with Qty * Price. 8. Delete all products sold before 05-01-2021. 9. Count the total number of sales men working in Surat city. 10. Add a column called 'Mobile' of datatype number and size 10.		
5.	Create below table with appropriate constraints. Employee (EmpNo,Name,EMP_city,Email_id,DOB,Dept,Salary). Write appropriate SQL statement for the following. 1. Insert atleast 10 records in table. 2. Find the employee name whose name length is 6 character. 3. Display all details of employees who working in MARKETING department and salary is greater than 25000. 4. Change department from service to key service. 5. Display employees whose last character is 'm'. 6. Delete employees belonging to DEVELOPER department. 7. Rename the table by name as 'Worker'.		

6.	Create table student with the following fields and assign appropriate constraints: (sid, sname, year, fee_amount, paid_date, pay_mode). Constraints: sid must be unique. year should be FY/SY/TY. pay_mode should be Cash and Cheque. 1. Insert minimum 10 records in the table. 2. Increase the fees amount by 6%. 3. Display details of students who have pay the fee by cheque. 4. Display the details of students whose name start with 'A'. 5. Display total fees for each year. 6. Delete the record of students whose name is 'Rajesh'. 7. Increase the amount of fees by Rs.2000 of the year 2026.		

Mukul

