

SMT. DIWALIBEN HARJIBHAI GONDALIA COLLEGE OF BCA & IT

PRACTICAL ASSIGNMENT (JOURNAL)

CLASS: S.Y.B.C.A. (3rd Semester)

SUBJECT:- Database Handling using Python-303(Practical)

Sr. No.	Description	Page No.	Sign																		
1	Create the following tables and enter at least 10 records with appropriate constraints: Employees(employee_id, first_name, last_name, age, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) Departments(Department_Id, Department_Name, Manager_Id, Location_Id) Locations(location_id, street_address, postal_code city, state_province, country_id) Countries(country_id, country_name, region_id) <table><tr><td>A)</td><td>Write a query to display the names (first_name, last_name) using alias name "First Name", "Last Name"</td></tr><tr><td>B)</td><td>Write a query to select first 10 records from a table</td></tr><tr><td>C)</td><td>Write a query to display the last names of employees whose names have exactly 6 characters</td></tr><tr><td>D)</td><td>Write a query to get the department ID and the total salary payable in each department</td></tr><tr><td>E)</td><td>Write a query to find the names (first_name, last_name) of the employees who have a manager who works for a department based in the United States</td></tr><tr><td>F)</td><td>Write a query to find the names (first_name, last_name), the salary of the employees who earn more than the average salary and who works in any of the IT departments</td></tr><tr><td>G)</td><td>Write a query to find the employee id, name (last_name) along with their manager_id, manager name (last_name).</td></tr><tr><td>H)</td><td>Write a query to display the job title and average salary of employees.</td></tr><tr><td>I)</td><td>Write a query to find the addresses (location_id, street_address, city, state_province, country_name) of all the departments</td></tr></table>	A)	Write a query to display the names (first_name, last_name) using alias name "First Name", "Last Name"	B)	Write a query to select first 10 records from a table	C)	Write a query to display the last names of employees whose names have exactly 6 characters	D)	Write a query to get the department ID and the total salary payable in each department	E)	Write a query to find the names (first_name, last_name) of the employees who have a manager who works for a department based in the United States	F)	Write a query to find the names (first_name, last_name), the salary of the employees who earn more than the average salary and who works in any of the IT departments	G)	Write a query to find the employee id, name (last_name) along with their manager_id, manager name (last_name).	H)	Write a query to display the job title and average salary of employees.	I)	Write a query to find the addresses (location_id, street_address, city, state_province, country_name) of all the departments		
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2	Write a command to Dump entire database with proper file name and tables structure into a file named as your rollno.																				
3	Write a trigger called AGECHECK on table employees that don't allow the insertion or update of any record that has an age less than 18.																				

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16/7/25

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4	Write a python program to find mean, median, mode from set of numbers in a list.		
5	Write a python program to retrieve all rows from employee table and display the column values in tabular format.		
6	Write a python program to read CSV file and upload data into table.		
7	Write a python program to retrieve all rows from employee table and dump into 'employee_details.csv' CSV file.		
8	Write a program to implement DML operations using sqlite3.		
9	Get total salary from employees table and show line plot with the following Style properties Generated line plot must include following Style properties: – • Line Style dotted and Line-color should be red • Show legend at the lower right location. • X label name = salary • Y label name = Employee name • Add a circle marker. • Line marker color as read • Line width should be 3		
10	Use employee_details.csv file and read salary and commission_pct data and show it using the bar chart The bar chart should display the number of units for each employee. Add a separate bar for each first name in the same chart.		

(Signature)
16/11/25