

## **Anjeev Singh Academy**

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# Class XII – Computer Science [083] CBSE Board Examination Practical File / Report File

## **Criteria for Report file**

[As per CBSE Curriculum]:

Minimum 15 Python programs.

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- SQL Queries Minimum 5 sets using one table / two tables.
- Minimum 4 programs based on Python SQL connectivity





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#### **Python Programs**

S. No.	Practical's Name	Page No.	Teacher's Sign
1	Write a program to obtain temperature in Celsius and Covert it into Fahrenheit.		0
2	Write a program to enter two integers and perform all arithmetic operations on them.		
3	Create Functions in Python to calculate Area and Perimeter of Circle. Write a Python program to ask user to input their choice 1 or 2. If choice is 1 calculate Area of Circle, if choice is 2 calculate Perimeter of Circle otherwise show an error message.	C	
4	Write a functions in Python to multiply two integer numbers without using the * operator, using repeated addition.	3	
5	Write program in python to print the given opposite flyod triangle. (opposite right angle triangle)	12	
6	Create a function to check the given string is palindrome. If Palindrome then return True otherwise return False.		
7	Create a Function to Guess_Numbers(), which ask a number between 1 to 6 form user. Generate a random number between 1 to 6 through random module and check the User Guess is matched or not. Display appropriate message,.		
8	Create functions Wrtie_Text() and Read_Text(). Write_Text() to write the contents in the text file "story.txt" line by line. Read_Text() read the text file "story.txt" and display each word separated by a '@'.	40	all
9	Create a function Count_Characters(filename), which receive filename as argument. Count_Character(filename) function will read text file "story.txt" and display the number of vowels, consonants, uppercase, lowercase, characters in the file.	Sin	
10	Create a function Copy_File(target_filename), which receive filename as argument. Copy_File(target_filename) function read a text file "story.txt", copy those lines only to target_filename, which are not started with either 'T' or 'A'.		
11.	Create a binary file "Student.dat" with name, roll number, and marks. Write a function Search(rollnumber) for a given roll number and display the name, if not found display appropriate message.		
12	Create a binary file "Employee.dat" with emp id, name and salary. Write a function Update_Sal(empid), receive an employee id and update the salary.		

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	Write a function Display(filename), display the all updated records.	
13.	Create a CSV file by entering user_id and password, read and search the	
	password for given user_id.	
14.	Crate a CSV file "Score.csv" by entering roll, name and marks.	
	Write a function Grace_5Marks(), which read the csv file and increase	
	the marks by 5 of students which scored less than 33.	
	Write a function Display() to display all records from CSV file.	
15.	Write a Python program to implement a stack using list.	

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#### SQL Queries

S.	Practical's Name	Page	<b>Teacher's</b>
No.		No.	Signature
1	<ul> <li>Create a student table (ADMNO, CLASS-SEC, NAME, SCORE) and insert data. Implement the following SQL commands on the student table:</li> <li>ALTER table to add new attributes (SEX CHAR(1) / modify data type CHAR to VARCHAR/ drop attribute SEX</li> <li>UPDATE table to modify data- Increase the marks of all students by 10 who scored less than 20.</li> <li>ORDER BY to display data in ascending / descending order by (i) NAME wise (ii) SCORE wise</li> <li>DELETE to remove tuple(s) having SCORE less than 10.</li> <li>GROUP BY and find the min, max, sum, count and average</li> </ul>	CUMON	
2	<ul> <li>Create a EMPLOYEE table (EID, NAME, SALARY, DEPT) and insert data. Implement the following SQL commands on the student table:</li> <li>ALTER table to add new attributes – HRA INT(5) / modify data type of HRA to decimal / drop attribute HRA</li> <li>UPDATE table to modify data – increase the salary by 10%</li> <li>ORDER BY to display data in ascending / descending order (i) SALARY wise (ii) EID wise</li> <li>DELETE to remove tuple(s) – employee having emp id 101</li> <li>GROUP BY and find the min, max, sum, count and average.</li> </ul>	hall	
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3	♦ Create a Database LIBRARY.
	Create a table BOOKs (book id (PK), book name, author name,
	publishers, price, type, qty) and Insert records
	Create a table ISSUED(issue_id, book_id (FK), quantity_issued ) and
	Insert records.
	✤ Write the SQL queries –
	• To show Book name, Author name and Price of books of First
	Publ. publishers. [SELECT, WHERE]
	• To list the names from books of Text type. [SELECT, WHERE]
	<ul> <li>To display the names and price from books in ascending order.</li> <li>[ORDER BY]</li> </ul>
	<ul> <li>To increase the price of all books of EPB publishers by 50.</li> </ul>
	[UPDATE]
	• To display the Book_Id, Book_Name. and Quantity_Issued for all
	books which have been issued. [JOIN QUERY]
	• To display the list of books having publisher value is NULL.
	To display the unique name of all Publishers.
	To display the Maximum and Average Price of Books Publisher
	<ul> <li>Write the Output of the following queries based on the above tables.</li> </ul>
	<ul> <li>SELECT COUNT(*) FROM BOOKS;</li> </ul>
	SELECT MAX(PRICE) FROM BOOKS WHERE QUANTITY
	>= 15;
	SELECT BOOK NAME, AUTHOR NAME FROM BOOKS
	WHERE PUBLISHERS = "EPB";
	SELECT COUNT(DISTINCT PUBLISHERS) FROM BOOKS
	WHERE PRICE $\geq$ 400;
4	♦ Create a Database COMPANY.
	Create a table JOB (JOBID (PK), JOBTITLE, SALARY) and Insert
	Records.
	Create a table Employee (EID (PK), NAME, SALES, JOBID (FK))
	<ul> <li>and Insert Records</li> <li>Write the SQL Queries for the following:</li> </ul>
	i. To display employee ids, names of employees, job ids, with
	corresponding job titles. (JOIN QUERY)
	ii. To display names of employees, sales and corresponding job titles
	who have achieved sales more than 130000. (JOIN QUERY)
	iii. To display names and corresponding job titles of those employees
	who have 'SINGH' (anywhere) in their names.
	iv. Display the name of employee having maximum salary.
	v. Write the SQL command to change the JobId to 104 of the Employee with ID as E4 in the table EMPLOYEE.
5	<ul> <li>Create a Table CLUB (CoachId, CoachName, Age, Sports, DateofApp,</li> </ul>
5	Pay, Sex) and Insert Records.
	<ul> <li>Write the SQL Queries for the following: -</li> </ul>
	• To display the list of coach who is playing KARATE.

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#### **Python - SQL Connectivity Programs**

S. No.	Practical's Name	Page No.	Teacher's Signature
1	Write a Python Program to create a Database named "School". Display the List of Databases available in MySQL.		
2	Write a Python program to Create a Table name "Student" under database "School" contained RollNo, Name, UT1, and UT2 score. Note: UT1 and UT2 out of 40 only.		
3	Write a Python Program to Insert Records in "Student" table. Display all records. Note: UT1 and UT2 out of 40 only		Ϋ́
4.	Write a Python program to increase the marks of UT1 by 10 of those students having UT1 marks less than 20. Also display a message how many records are updated.	hol	116.
5.	Write a Python programs to Display Records form table "Student" with their Total Marks and Percentage. (totalmarks = UT1 + UT2) (percentage = totalmarks / 80 * 100	S	
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