Assignment – 1

1. Write a SQL query to return the employee number, name and salary of all 'CLERK' who work in Department 10.
2. Write a SQL query to find employee number, name and job of all employees who are not managers.
3. Write a SQL query to find employee number, name and salary of all employees who get less than 1000 or more than 3000, ordered by salary.
4. Write a SQL query to find the name and employee number of all salesmen whose name begins with the letter S.
5. Use the IN operator to write a SQL query to find the name and employee number of all employees who are analysts or managers, ordered alphabetically by name.
6. Write a SQL query to find the employee number, name, salary and commission of all employees who have been paid commission and whose salary is greater than 1000.
7. List the sum of salary department wise.
8. Count the number of 'CLERK' in each department and their sum of salary.
9. All Employee's with the job as 'CLERK' are now called as (AO) Administrative Officers. Update the Employee table for this.
10. Update salaries of all the SALESMAN , by increasing it by 100 $.
11. Increase the salary of KING by $ 300.
12. Delete the employees who get commission less than 100.
13. Find the SUM, AVERAGE, MINIMUM, MAXIMUM salary from the Employee table.
14. Count the number of employees in each department.

Assignment – 2 : consider the following table:

AccNo	Cust_Name	Loan_Amount	Instalments	Int_Rate	Start_Date	Interest
1	R.K. Gupta	300000	36	12.00	19-07-200	9
2	S.P. Sharma	500000	48	10.00	22-03-200	8
3	K.P. Jain	300000	36	NULL	08-03-200	7
4	M.P. Yadav	800000	60	10.00	06-12-200	8
5	S.P. Sinha	200000	36	12.50	03-01-201	0
6	P. Sharma	700000	60	12.50	05-06-200	8
7	K.S. Dhall	500000	48	NULL	05-03-200	8

1) Display the details of all the loans.
2) Display the AccNo, Cust_Name, and Loan_Amount of all the loans.
3) Display the details of all the loans with less than 40 instalments.
4) Display the AccNo and Loan_Amount of all the loans started before 01-04-2001.
5) Display the Int_Rate of all the loans started after 01-04-2000.
6) Display the details of all the loans whose rate of interest shows NULL.
7) Display the details of all the loans whose rate of interest not NULL.
8) Display the amounts of various loans from the table Loan_Accounts. A loan amount should appear only once.
9) Display the number of instalments of various loans from the table Loan_Accounts. An instalment should appear only once.
10) Display the details of all the loans started after 31 -12-1999 for which the number of instalments are more than 36.
11) Display the Cust_Name and Loan_Amount for all the loans which do not have number of instalments 36.
12) Display the Cust_Name and Loan_Amount for all the loans for which the loan amount is less than 500000 or int_rate is more than 12.
13) Display the details of all the loans which started in the year 2000.

14) Display the details of all the loans whose Loan_Amount is in the range 400000 to 500000.
15) Display the details of all the loans whose rate of interest is in the range 11% to 12%.
16) Display the Cust_Name and Loan_Amount for all the loans for which the number of instalments are 24, 36, or 48.
17) Display the AccNo, Cust_Name, and Loan_Amount for all the loans for which the Cust_Name ends with 'Sharma'.
18) Display the AccNo, Cust_Name, and Loan_Amount for all the loans for which the Cust_Name ends with 'a'.
19) Display the AccNo, Cust_Name, and Loan_Amount for all the loans for which the Cust_Name contains 'a'
20) Display the AccNo, Cust_Name, and Loan_Amount for all the loans for which the Cust_Name contains 'a' as the second last character.
21) Display the details of all the loans in the ascending order of their Loan_Amount.
22) Display the details of all the loans in the descending order of their Start_Date.
23) Put the interest rate 11.50% for all the loans for which interest rate is NULL.
24) Increase the interest rate by 0.5% for all the loans for which the loan amount is more than 400000.
25) For each loan replace Interest with (Loan_Amount*Int_Rate*Instalments).
26) Delete the records of all the loans whose start date is before 2007.
27) Delete the records of all the loans of 'K.P. Jain'

Create a database which consist of the following tables with appropriate constraints like primary key, foreign key, check constrains, not null etc.

- Hotel (HotelNo, Name, City) HotelNo is the primary key
- Room (RoomNo, HotelNo, Type, Price)
- Booking (HotelNo, GuestNo, DateFrom, DateTo, RoomNo)
- Guest (GuestNo, GuestName, GuestAddress) GuestNo is primary key

Perform DDL and DCL commands

Create a table with all constraints ,truncate a table, drop a table ,alter table by adding a column , dropping a column, adding and dropping different constraints, modify data type and length of column, , rename table , column