Write SQL Queries for Exercise-I and Exercise-II given below. Execute them and provide the answers.

Data For Employee Table

FName	Mini t	LName	SSN	BDate	Address	Sex	Salary	SuperSSN	DepNo
Doug	Е	Gilbert	554433221	09-JUN-60	11 S 59 E,Salt Lake City,UT	M	80000	NULL	3
Joyce		PAN	543216789	07-FEB-78	35 S 18 E, Salt Lake City, UT	F	70000	NULL	2
Frankin	T	Wong	333445555	08-DEC- 45	638 Voss, Houston, TX	M	40000	554433221	5
Jennifer	S	Wallace	987654321	20-JUN-31	291 Berry, Bellaire, TX	F	43000	554433221	4
John	В	Smith	123456789	09-JAN-55	731 Fondren, Houston, TX	M	30000	333445555	5
Ramesh	K	Narayan	666884444	15-SEP-52	975 Fire Oak, Humble, TX	M	38000	333445555	5
Joyce	A	English	453453453	31-JUL-62	5631 Rice, Houston, TX	F	25000	333445555	5
James	Е	Borg	888665555	10-NOV- 27	450 Stone, Houston, TX	M	55000	543216789	1
Alicia	J	Zelaya	999887777	19-JUL-58	3321 Castle, Spring, TX	F	25000	987654321	4
Ahmad	V	Jabbar	987987987	29-MAR- 59	980 Dallas, Houston, TX	M	25000	987654321	4

Data For Department table

DName	DepNo	MgrSSN	MgrStartDate
Manufacture	1	888665555	19-JUN-71
Administration	2	543216789	04-JAN-99
Headquarter	3	554433221	22-SEP-55
Finance	4	987654321	01-JAN-85
Research	5	333445555	22-MAY-78

Data For Project

PName	PNumber	Plocation	DepNo	
ProjectA	3388	Houston	1	
ProjectB	1945	Salt Lake City	3	
ProjectC	6688	Houston	5	
ProjectD	2423	Bellaire	4	
ProjectE	7745	Sugarland	5	
ProjectF	1566	Salt Lake City	3	
ProjectG	1234	New York	2	
ProjectH	3467	Stafford	4	
ProjectI	4345	Chicago	1	
ProjectJ	2212	San Francisco	2	

Exercise-I:

- 1. Insert the data given above in both employee, department and project tables.
- 2. Display all the employees' information.
- 3. Display Employee name along with his SSN and Supervisor SSN.
- 4. Display the employee names whose bdate is '29-MAR-1959'.
- 5. Display salary of the employees without duplications.
- 6. Display the MgrSSN, MgrStartDate of the manager of 'Finance' department.
- 7. Modify the department number of an employee having fname as 'Joyce' to 5
- 8. Alter Table department add column DepartmentPhoneNum of NUMBER data type and insert values into this column only.
- 9. Alter table department to modify the size of DepartmentPhoneNum.
- 10. Modify the field name DepartmentPhoneNum of departments table to PhNo.
- 11. Rename Table Department as DEPT.
- 12. Alter Table department remove column PhNo.
- 13. Create a table COPYOFDEPT as a copy of the table DEPT.
- 14. Delete all the rows from COPYOF DEPT table.
- 15. Remove COPYOF DEPT table.

Exercise: II

Operators and Functions

Aim: To understand different operators and types of function in SQL

Execute the following queries based on the schema specified in exercise 1

- 1. Find the employee names having salary greater than Rs.25000.
- 2. Find the employee names whose salary lies in the range between 30000 and 70000.
- 3. Find the employees who have no supervisor.
- 4. Display the bdate of all employee s in the format 'DDthMonthYYYY'.
- 5. Display the employee names whose bdate is on or before 1978.
- 6. Display the employee names having 'salt lake' in their address.
- 7. Display the department name that starts with 'M'.
- 8. Display the department names' that ends with 'E'.
- 9. Display the names of all the employees having supervisor with any of the following SSN 554433221, 333445555.
- 10. Display all the department names in upper case and lower case.
- 11. Display the first four characters and last four of the department names using substring function.
- 12. Display the substring of the Address (starting from 5th position to 11 th position) of all employees.
- 13. Display the Mgrstartdate on adding three months to it.
- 14. Display the age of all the employees rounded to two digits.
- 15. Find the last day and next day of the month in which each manager has joined.
- 16. Print a substring from the string 'Harini'.
- 17. Replace the string 'ni' from 'Harini' by 'sh'.
- 18. Print the length of all the department names.
- 19. Print the system date in the format 25 th May 2007.
- 20. Display the date after 10 months from current date.
- 21. Display the next occurrence of Friday in this month.

- 22. Convert SSN of employee to Number format and display.
- 23. Display the project location padded with **** on left side.
- 24. Remove the word 'Project' from the project name and display it.
- 25. Select the SSN of the employee whose dependent name is either Michaelor Abner.