

1) Create the following tables:

i) Employee:

| Name         | Constraint  | Data Type   |
|--------------|-------------|-------------|
| Ename        | Primary key | varchar(25) |
| Street       |             | varchar(40) |
| City         |             | varchar(20) |
| joining_date |             | date        |
| gender       |             | varchar(7)  |
| <u>DOB</u>   |             | <u>Date</u> |

ii) Company

| Name  | Constraint  | Data Type   |
|-------|-------------|-------------|
| Cname | Primary key | varchar(25) |
| city  |             | varchar(20) |

iii) works

| Name   | Constraint  | Data Type   |
|--------|-------------|-------------|
| ename  | Primary key | varchar(25) |
| cname  |             | varchar(25) |
| salary |             | int         |

iv) manages

| Name         | Constraint | Data Type   |
|--------------|------------|-------------|
| <u>ename</u> |            | varchar(25) |
| manager_name |            | varchar(25) |

Supplier  
Cmnry  
Ordv  
prod  
Orderiter

2) Insert atleast 5 rows in each table. (Insert data in such a way that every query below should generate a output).

3) Answer the following queries:

- List information about all employees in the database.
- List information about all companies in the database.
- List the name and city of all employees.
- List the name and salary of the employees working for 'FBC Corporation'.
- List name of employees whose name is same as their managers.
- List the name of the employees having salary less than 25000/-.
- List the names of female employees from 'Bangalore' city.
- List the companies located in pune city.
- List the names of all the managers.
- List names of all employees whose names are 3 characters long.
- List names of all employees whose names end with letter 'D'.
- List names of all employees whose names start with 'A' or 'G'.
- Select all employees whose names fall between 'A' and 'C' alphabetical range.
- List all the employee details in the ascending order of salary.
- List the employees company wise(i.e. In the alphabetical order of the company and all employees of a particular company should be displayed in descending order of their salary).
- List the employee names and joining date in the descending order of joining date.
- List name, salary and PF amount of all the employees. Pf is calculated as 10% of salary.
- List the names of employees who are more than 2 years old in the organization.
- delete the companies located in ponda city.
- List the employees born in the month of 'July'.

Emid  
EFN  
ELnew  
ESaf  
E Age



No: 2

SQL: Alter table

1) Add the following table

i) dependents

| Name           | Constraint               | Data Type   |
|----------------|--------------------------|-------------|
| ename          | Primary key, foreign key | varchar(15) |
| dependent_name | Primary key              | varchar(25) |
| relation       |                          | varchar(20) |
| gender         |                          | varchar(8)  |

- 2) Make ename and managename in manages as the foreign key referencing employee table.
- 3) Make ename and cname in works as the foreign key referencing employee and company table.
- 4) Add a new column bdate to employee table with the data type date.
- 5) Make ename, managename as the primary key for manages relation.
- 6) Set a default value of female to gender.
- 7) Rename ename attribute in dependents to employee\_name and its datatype to varchar(25)
- 8) Rename dependents table as employee\_dependent table.
- 9) Change the datatype of salary to smallint in works table.
- 10) Drop the newly added column bdate from the employee table.
- 11) Take the dump of mysql database.
- 12) Create a new database dummyemp from the dump file created.
- 13) Delete the dummyemp database.
- 14) Create a table dummycompany from the company table and check the data
- 15) Delete all the data from dummycompany table.
- 16) Insert all the data from companyt into dummycompany. (using single insert statement).
- 17) Create a new table sample with attributes no and name with Innodb engine.
- 18) Change the Innodb engine to mylsam for the newly created table sample.