<u>Lab-10</u>

# **Employee Information system**

<u>name</u>	<u>attribute</u>	<u>Primary key</u>
<u>Employee</u>	Eno, ename, sex, eplace,	Eno
	salary, dob, doj	
<u>Skill</u>	Scode, skillcat	<u>Scode</u>
Department	Dno, dname, hod	<u>Dno</u>
qualification	Qcode, degree, discipline	gcode

## **Employee**

attribute	Data type
Eno	<u>Varchar</u>
<u>Ename</u>	<u>Varchar</u>
Sex Eplace	<u>Varchar</u>
<u>Eplace</u>	<u>Varchar</u>
Salary	<u>Number</u>
Salary Dob doj	Date
doj	date

<u>eno</u>	<u>ename</u>	<u>sex</u>	<u>eplace</u>	<u>salary</u>	<u>dob</u>	<u>doj</u>
<u>G01</u>	William	<u>M</u>	<u>Balasore</u>	8000	12-jan-69	<u>10-apr-91</u>
<u>G02</u>	<b>Prasanta</b>	<u>M</u>	<u>Kolkata</u>	<u>12000</u>	<u>10-mar-65</u>	20-may-87
<u>G03</u>	<b>Sanchita</b>	<u>F</u>	<u>Pune</u>	<u>16000</u>	<u>09-feb-62</u>	<u>11-jun-84</u>
<u>G04</u>	<u>Aniruddha</u>	<u>M</u>	<u>Jamshedpur</u>	<u>12000</u>	<u>20-sep-70</u>	<u>12-oct-93</u>
<u>G05</u>	Geeta	<u>F</u>	<u>Nagpur</u>	<u>16000</u>	25-oct-60	<u>12-nov-88</u>
<u>Ng01</u>	William	<u>M</u>	<u>Jamshedpur</u>	<u>6000</u>	<u>10-feb-55</u>	12-mar-75
<u>Ng02</u>	<u>Sarathi</u>	M	<u>Chandipur</u>	4000	<u>08-apr-70</u>	12-feb-88
<u>Ng03</u>	Murugan	<u>M</u>	Kochi	<u>5000</u>	<u>10-mar-66</u>	<u>12-jun-87</u>
<u>Ng04</u>	Shar mili	F	Mumbai	<u>5500</u>	20-oct-77	12-nov-98
<u>Ng05</u>	<u>Pramila</u>	<u>F</u>	Bhubaneshawar	<u>6000</u>	<u>06-jan-72</u>	12-feb-93
<u>Ng06</u>	<b>Sandhya</b>	<u>F</u>	<u>Delhi</u>	<u>6500</u>	<u>10-apr-68</u>	<u>11-mar-84</u>
<u>Ng07</u>	<u>pradip</u>	<u>m</u>	<u>kota</u>	<u>4500</u>	24-jun-74	20-feb-96

## <u>Skill</u>

<u>attributes</u>	Data type
Scode	<u>Varchar</u>
Skillcat	Varchar (skill category)

scode	skillcat
S01	<u>Programmer</u>
<u>S02</u>	<u>Dba</u>
<u>S03</u>	Radar
<u>\$02</u> <u>\$03</u> <u>\$04</u>	<u>admistration</u>

## **Department**

<u>attribute</u>	Data type
<u>Dno</u>	<u>Varchar</u>
<u>Dname</u>	<u>Varchar</u>
Hod	varchar

dno	dname	hod
<u>D01</u>	Computer	<u>G05</u>
<u>D02</u>	<u>Instrument</u>	<u>G04</u>
D03	Admin	G02

# Qualification

<u>Attribute</u>	Data type
<u>Qcode</u>	<u>Varchar</u>
<u>Degree</u>	<u>Varchar</u>
discipline	varchar

<u>qcode</u>	degree	discipline
<u>Q01</u>	BA	<b>ENGLISH</b>
<u>Q02</u>	<u>MBA</u>	<u>FINANCE</u>
<u>Q03</u>	<u>BTECH</u>	<b>ELECTRICAL</b>
<u>Q04</u>	MTECH	<u>COMPUTER</u>
<u>Q05</u>	LLB	LAW
<u>Q06</u>	BSC	<u>MATHS</u>
<u>Q07</u>	<u>MCOM</u>	<u>ECONOMICS</u>
<u>Q08</u>	MA	PUBLIC ADMIN

# Relationship

relations	Primary key	Foreign key	Reference entity	Relationship attribute
Works_on	Eno+dno	Eno→dno	Employee, department	Nill
Posses	Eno+scode	<u>Eno→scode</u>	Employee. Skill	<u>Nill</u>
Keeping	Eno+qcode	<u>Eno→qcode</u>	Employee, qualification	<u>nill</u>

## Works\_on

eno	dno
<u>eno</u> <u>G01</u>	<u>D01</u>
<u>G02</u>	<u>D03</u>
<u>G03</u>	<u>D02</u>
G02 G03 G04 G05	<u>D02</u>
<u>G05</u>	<u>D01</u>

<u>NG01</u>	<u>D03</u>
NG02	<u>D03</u>
NG03 NG04	<u>D01</u>
<u>NG04</u>	<u>D01</u>
<u>NG05</u>	<u>D02</u>
<u>NG06</u>	<u>D02</u>
<u>NG07</u>	<u>D03</u>

## **Posses**

eno	scode
<u>G01</u>	<u>S01</u>
<u>G01</u>	<u>S02</u>
<u>G02</u>	<u>S04</u>
<u>G03</u>	<u>S03</u>
<u>G03</u>	<u>801</u>
<u>G04</u>	<u>803</u>
<u>G05</u>	<u>802</u>
<u>NG01</u>	<u>S01</u>
<u>NG01</u>	<u>S04</u>
<u>NG02</u>	<u>S04</u>
<u>NG03</u>	<u>801</u>
<u>NG05</u>	<u>S03</u>
<u>NG06</u>	<u>803</u>
<u>NG07</u>	<u>S02</u>

## Keeping

eno	gcode
G01	Q03
<u>G01</u>	Q04
<u>G02</u>	Q02
<u>G02</u>	<u>Q05</u>
<u>G03</u>	<u>Q03</u>
<u>G04</u>	<u>Q04</u>
<u>G05</u>	<u>Q04</u>
<u>Ng01</u>	<u>Q01</u>
<u>Ng02</u>	<u>Q07</u>
<u>Ng03</u>	<u>Q06</u>
<u>Ng04</u>	<u>Q03</u>
<u>Ng05</u>	<u>Q06</u>
<u>Ng06</u>	<u>Q06</u>
<u>Ng07</u>	<u>Q03</u>

### **Queries**

1) list the department in which employee with skill in 'radar' is working

- 2) list the employee name, department name in which a female employee having btech qualification is working.
- 3) List the employee number, department number, qualification code and skill code of the youngest male employee.
- 4) List the employee name, department name of the employee whose employee code starts with the letter "G" has served maximum number of years in the organisation and having the skill of "programmer".
- 5) List the name of female employees who are "bsc" degree holder and having age of more than 20 years.
- 6) List the qualification of the HOD of "Computer "department.
- 7) List the employee name, department name, skill, qualification of the employee who is getting minimum salary.
- 8) List the employee name, qualification of teh employee who has joined service at the youngest age.
- 9) List the employee name who possess more than one qualification.
- 10) List teh employee name who belongs to "admin" department and having skill in administration.
- 11) List the skills of that employee who is drawing maximum salary.
- 12) List the department details of that employee who belongs to city Jamshedpur.
- 13) List the name, qualification, discipline and salary of that employee who is head of instrument department.
- 14) List the name, sex, native place, salary, qualification and skills of that employee who has joined the service at very young age.
- 15) List the employee wise expenditure of the organisation of those employees having mtech degree.
- 16) List the name, qualification and skills of the youngest male employee.
- 17) Lsit the department names of the employees who are born after the year 1970.