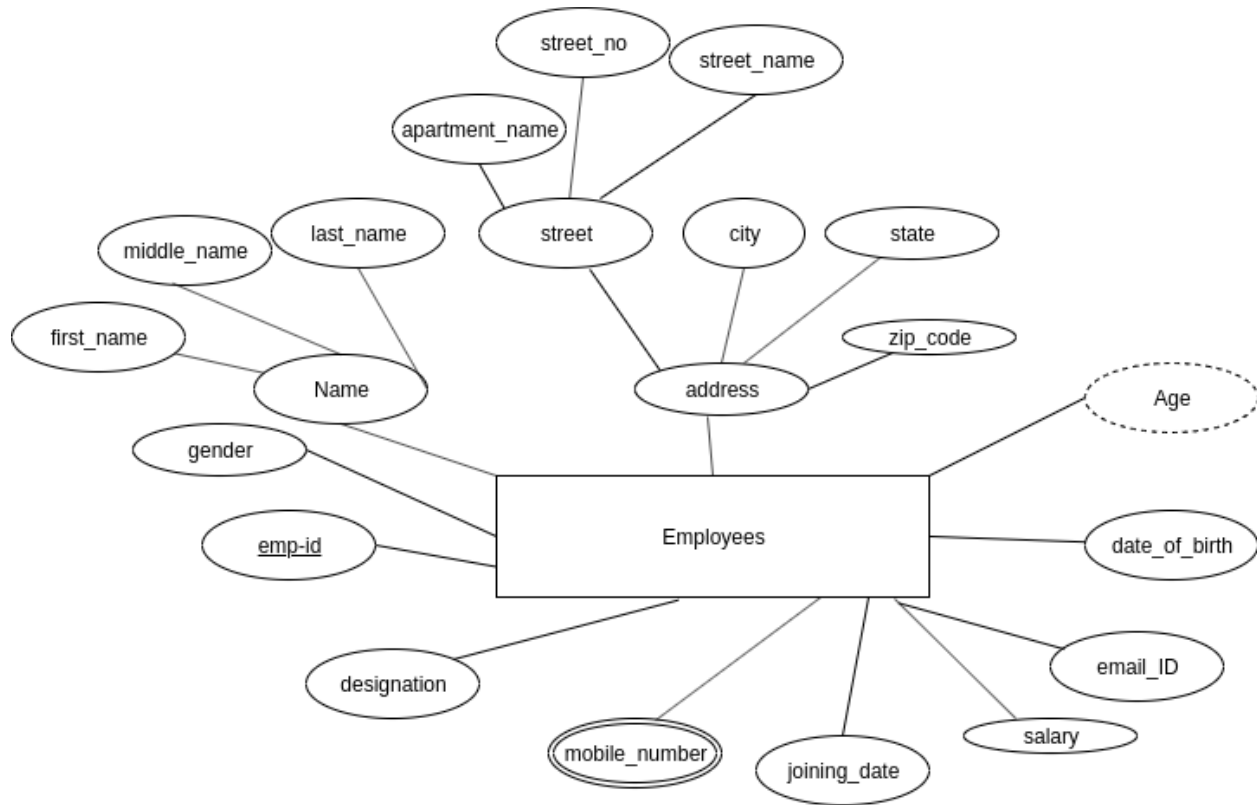


Birla Institute of Technology & Science, Pilani, K. K. BIRLA Goa campus
Database Systems (CS F212)
Second Semester 2020-2021
Lab-3 Practice Exercise



Q.1 Create “Employees” table using information given in above diagram. Also handle multi-valued attribute.

Constraints:

1. Following attributes cannot be NULL:

- | | |
|--------------------|-----------------|
| • First Name | • Zipcode |
| • Last Name | • Designation |
| • Gender | • Date of birth |
| • Apartment_number | • Mobile number |
| • Street name | • Salary |
| • City | • Joining date |
| • State | • email id |

2. An employee can have many mobile number.

3. A mobile number cannot be assigned to employee which is not present in “employees” table.

The details of the employees are given below in following format:

Emp_ID , Emp_Name , Gender , Address , Zipcode , Designation, Emp_D.O.B, Mobile number, Emp_Salary , Date of Joining, Email ID

- '2019XYZ0030' , 'Adarsh Sharma' , 'M' , 'A/380 ,M.G road ,Indore , M.P. ,452018,'Team Lead', '19-12-1990', '7012500001' , '7710000030,8985232632', 80,000 , '01-07-2005', 'sharma.adrash90@yymail.com'
- '2019XYZ0031', 'Mohit Malviya' , 'M' , 'C/290 street-54 Vijaynagar Indore ,M.P.', 452011, 'Developer', '12-03-1983', '8982646300', 50,000, '10-08-2005', 'mohit_malviya1203@yymail.com'
- '2019XYZ0032', 'Amit Kumar Rai' , 'M', 'A/181 abhinandan nagar ,Indore , M.P.', 452010, 'HR', '15-12-1990', '7012245201,9424075236', 90,000, '19-09-2005', 'amit_rai1990@coolmail.com'
- '2019XYZ0033', 'Ayushi Jain', 'F', 'E-320 Friganj Ujjain, M.P.,452016', 'Developer' '01-07-1992', '7012015121,8985632520', 30,000, '05-02-2007', 'jain_aysuhi1992@coolmail.com'
- '2019XYZ0034', 'Anand Diwedi', 'M', 'A/661 street-58 Bhavarkuwa Indore, M.P.', 452020, 'Tester' , '02-10-1994', '8865263452', 30,000, '15-04-2006', 'anand007@coolmail.com'
- '2019XYZ0035', 'Khushboo Rathi', 'F', 'C/230 street-280 Shastri nagar Ujjain, M.P.', 452023, 'Tester' , '05-01-1992', '8458512332', 30,000, '20-06-2008', 'k_rathi12@coolmail.com'

Q. Try to insert below entries in mobile number table:

- insert into mobile_num values('2019XYZ0036',7012501235);
- insert into mobile_num values(null,7012502091);

Analyze the issues and try to correct them.

Q. List name of employees who have more than 2 mobile numbers. **Hint:Use group by and having clause.**

Q. Company has planned to give bonus to those employees who has completed more than 12 years with company .Amount of bonus for an employee is $0.01 * \text{salary} * (\text{today's date} - \text{joining date})$.

Calculate the total bonus given by company to its employees.