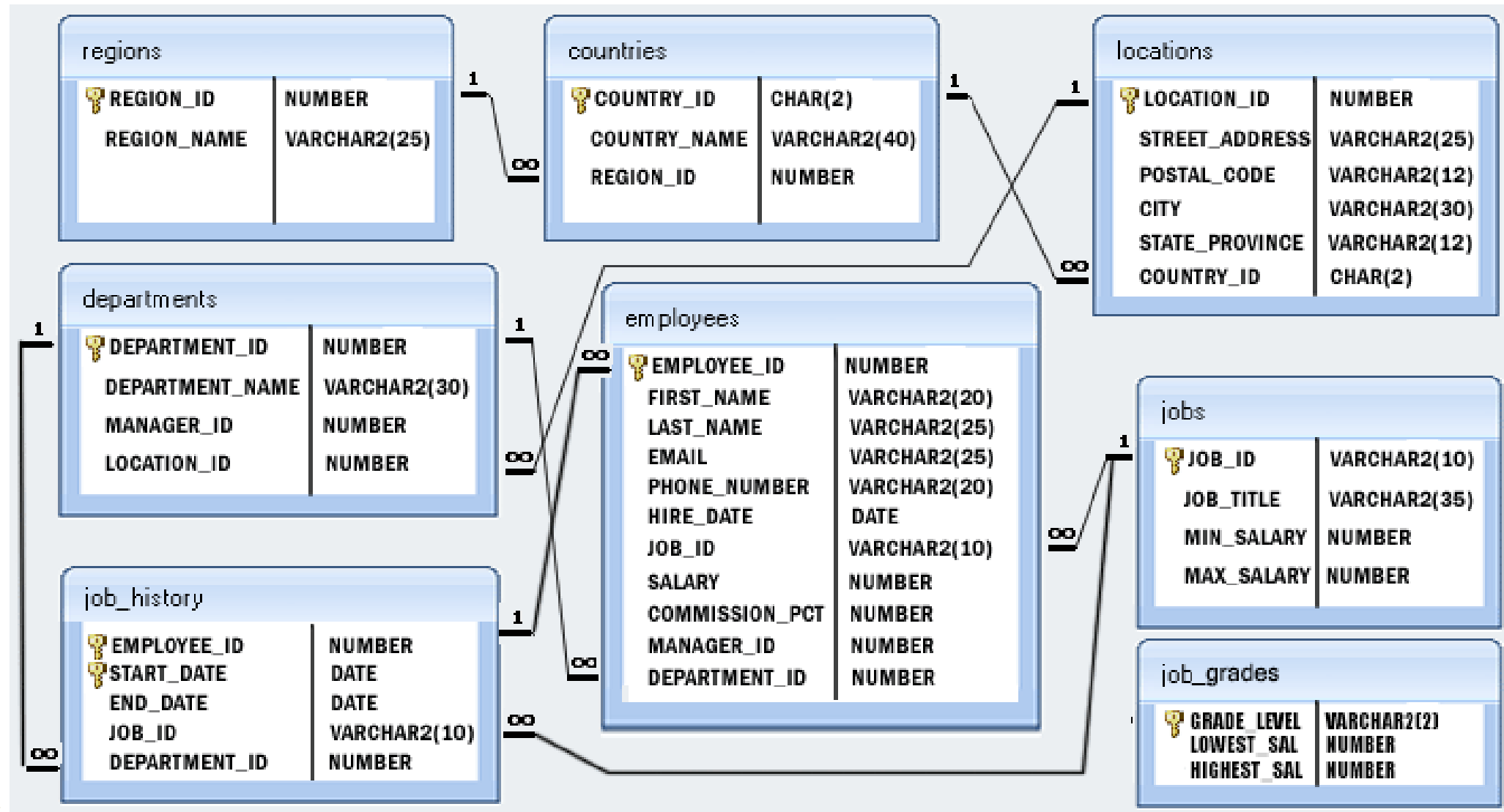


# Session 1

# Database diagram



# Todo

- Create HR database
- Insert data into tables
  - Using GUI
  - Insert into table
  - *data from file “hr\_db.sql”*
- Update data in the tables
  - update the email column of employees table with 'not available' for all employees
  - update the email column of employees table with 'not available' for those employees who belongs to the 'Accounting' department.
  - Update salary of employee to 8000 whose ID is 105, if the existing salary is less than 5000

## Todo (2) - Select

1. Write a query to display the names (first\_name, last\_name) using alias name "First Name", "Last Name" from the employees
2. Write a query to get unique department ID from employee table.
3. Write a query to get all employee details from the employee table order by first name, descending.
4. Write a query to get the names (first\_name, last\_name), salary, PF of all the employees (PF is calculated as 15% of salary).
5. Write a query to get the employee ID, names (first\_name, last\_name), salary in ascending order of salary.
6. Write a query to get the total salaries payable to employees.
7. Write a query to get the maximum and minimum salary from employees table.
8. Write a query to get the average salary and number of employees in the employees table.
9. Write a query to get the number of employees working with the company.
10. Write a query to get the number of jobs available in the employees table.

# Todo (3) – Administering tools

- Backup
- Restore
- ..

# Session 2

# Todo (3) - Join

1. Write a query to find the name (first\_name, last\_name), job, department ID and name of the employees who works in London.
2. Write a query to find the employee id, name (last\_name) along with their manager\_id and name (last\_name).
3. Write a query to find the employee ID, job title, number of days between ending date and starting date for all jobs in department 90.
4. Write a query to display the job title and average salary of employees.
5. Write a query to display job title, employee name, and the difference between salary of the employee and minimum salary for the job.
6. Write a query to display the job history that were done by any employee who is currently drawing more than 10000 of salary.
7. Write a query to display department name, name (first\_name, last\_name), hire date, salary of the manager for all managers whose experience is more than 15 years.

# Todo (4) - using Functions

1. Write a query to get the firstname, lastname who joined in the month of June.
2. Write a query to get the years in which more than 10 employees joined.
3. Write a query to get first name of employees who joined in 1987.
4. Write a query to get department name, manager name, and salary of the manager for all managers whose experience is more than 5 years.
5. Write a query to find all employees where first names are in upper case.
6. Write a query to extract the last 4 character of phone numbers.