SQL
CASE STUDY
Human Resources
Data Schema(HR)
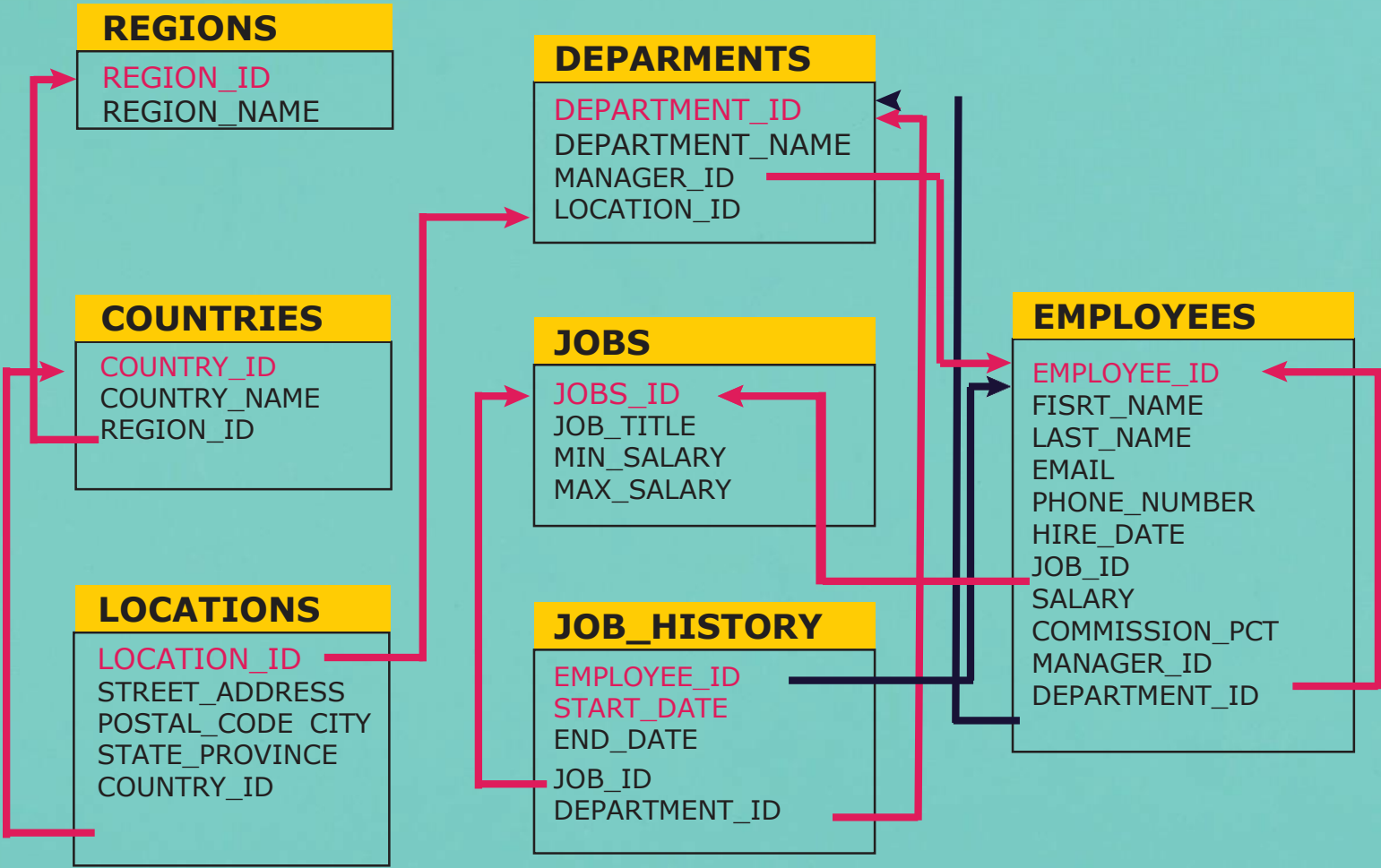# WEEK 7

Data Science Academy

The following is the structure of the tables provided by Oracle in Human Resource Schema (HR).

REGIONS
REGION_ID
REGION_NAME

DEPARMENTS
DEPARTMENT_ID
DEPARTMENT_NAME
MANAGER_ID
LOCATION_ID

COUNTRIES
COUNTRY_ID
COUNTRY_NAME
REGION_ID

JOBS
JOBS_ID
JOB_TITLE
MIN_SALARY
MAX_SALARY

EMPLOYEES
EMPLOYEE_ID
FISRT_NAME
LAST_NAME
EMAIL
PHONE_NUMBER
HIRE_DATE
JOB_ID
SALARY
COMMISSION_PCT
MANAGER_ID
DEPARTMENT_ID

LOCATIONS
LOCATION_ID
STREET_ADDRESS
POSTAL_CODE CITY
STATE_PROVINCE
COUNTRY_ID

JOB_HISTORY
EMPLOYEE_ID
START_DATE
END_DATE
JOB_ID
DEPARTMENT_ID

You are asked to provide answers for the following questions:

1. Display the first promotion year for each employee.
2. Display location, city and department name of employees who have been promoted more than once.
3. Display minimum and maximum "hire_date" of employees work in IT and HR departments.
4. Find difference between current date and hire dates of employees after sorting them by hire date, then show difference in days, months and years.
5. Find which departments used to hire earliest/latest.
6. Find the number of departments with no employee for each city.
7. Create a category called "seasons" and find in which season most employees were hired.
8. Find the cities of employees with average salary more than 5000.