Week3 lab02 Relational Data Model

name : Vorng Viseth

id : IDTB110230

Human Resource(HR)

Entity set : employees, em_resigns, jobs, departments, locations, regions, country

1. **employees** (strong)
   a. id (PK)
   b. name
   c. phone_num
   d. email
   e. salary
   f. manager
   g. comissions
   h. hired date
   i. em_resign (FK)
   j. job_id (FK)
   k. department_id (FK)
2. **em_resign** (weak)
   a. start_date
   b. end_date
   c. em_id (PK)
3. **jobs** (strong)
   a. id (PK)
   b. title
   c. salary_range
      i. min
      ii. max
4. **departments** (strong)
   a. dep_num (PK)
   b. manager
   c. location_id (FK)
5. **locations** (strong)
   a. id (PK)
   b. street_name
   c. postal_code
   d. city_sate/province
   e. country_id (FK)
6. **regions** (weak)
   a. id (PK)
   b. name
7. **countries** (strong)

a. name
b. id(PK)
c. regions_id (FK)

employees (entity): hired_date, id, name, salary, manager, phone_num, comissions, email

jobs (entity): title, id, max, min — salary_range

employees —1— works_as —1— jobs — salary_range

employees:
- 1:1 / 1:M — mangae
- 1 — has
- 1:1 — manage
- 1:1 — work_for

has —1— em_resign (start_date, end_date)

manage —1:1 ... 1:M — departments (dep_num, manager)

work_for —1:1

locations (entity): id, city_state/province, street_name, postal_code

regions (entity): name, id

locations —1— located_at —1— departments

locations —1:1— located_at

regions —1:M— located_at —1:1

countries (name, id)

located_at —1:M— countries

---

employees
id (PK)
name
phone_num
email
salary
manger
comission
hired_date
job_id (Fk)
em_resign_id (FK)
department_id (FK)

jobs
id (PK)
title
salary

em_resign
id (PK)
start_date
end_date

department
dep_num (PK)
manager
location_id (FK)

locations
id (PK)
street_name
postal_code
city_state/province
country_id (FK)

countries
id (PK)
name
regions_id (FK)

region
id (PK)
name