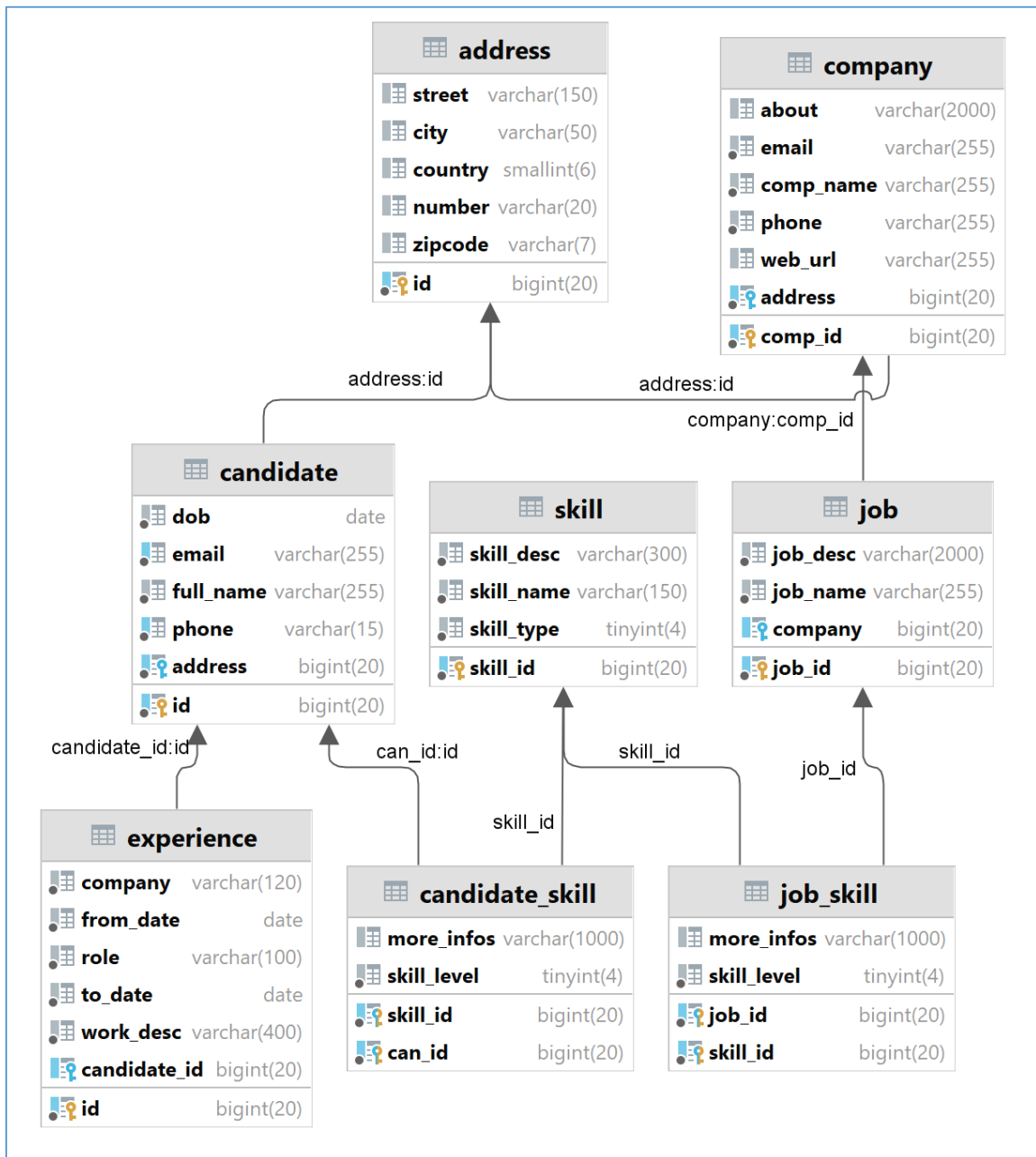


LAB WEEK 05

Cho csdl như hình. Hãy tạo một ứng dụng web sử dụng spring boot rồi thực hiện các công việc sau



1. Tạo các entities sao cho khi thực thi sẽ tạo ra các bảng như hình
2. Viết các repositories interface
3. Viết các lớp services
4. Tạo các trang web cho phép công ty đăng tin tuyển người với các skill mong muốn
5. Các ứng viên khi log vào sẽ được gợi ý các công việc có skill phù hợp với mình
6. Giúp các công ty tìm các ứng viên có skill phù hợp rồi gửi mail mời.

7. Đề xuất một số skill mà ứng viên chưa có để học.
8. Và các yêu cầu khác

Database tham khảo

```
-- Dumping database structure for works
CREATE DATABASE IF NOT EXISTS `works` /*!40100 DEFAULT CHARACTER SET latin1
COLLATE latin1_swedish_ci */;
USE `works`;

-- Dumping structure for table works.address
CREATE TABLE IF NOT EXISTS `address` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT,
  `street` varchar(150) DEFAULT NULL,
  `city` varchar(50) DEFAULT NULL,
  `country` smallint(6) DEFAULT NULL CHECK (`country` between 0 and 201),
  `number` varchar(20) DEFAULT NULL,
  `zipcode` varchar(7) DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;

-- Data exporting was unselected.

-- Dumping structure for table works.candidate
CREATE TABLE IF NOT EXISTS `candidate` (
  `id` bigint(20) NOT NULL AUTO_INCREMENT,
  `dob` date NOT NULL,
  `email` varchar(255) NOT NULL,
  `full_name` varchar(255) NOT NULL,
  `phone` varchar(15) NOT NULL,
  `address` bigint(20) NOT NULL,
  PRIMARY KEY (`id`),
  UNIQUE KEY `UK_qfut8ruekcode092nlkipgl09g` (`email`),
  UNIQUE KEY `UK_9i5yt1gvm0chg5e10qkns7tll` (`phone`),
  UNIQUE KEY `UK_m8qhl4wu215gr34dhxp0dour` (`address`),
  CONSTRAINT `FKa8gnyyhb2qn timerhp94grciln0o9` FOREIGN KEY (`address`)
REFERENCES `address` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;

-- Data exporting was unselected.

-- Dumping structure for table works.candidate_skill
CREATE TABLE IF NOT EXISTS `candidate_skill` (
  `more_infos` varchar(1000) DEFAULT NULL,
  `skill_level` tinyint(4) NOT NULL CHECK (`skill_level` between 0 and 2),
  `skill_id` bigint(20) NOT NULL,
  `can_id` bigint(20) NOT NULL,
  PRIMARY KEY (`can_id`,`skill_id`),
  KEY `FKb7cxhighcah7c20a2cdlvr1f8` (`skill_id`),
  CONSTRAINT `FKb0m5tm3fi0upa3b3kjsx3vrlxs` FOREIGN KEY (`can_id`) REFERENCES
`candidate` (`id`),
  CONSTRAINT `FKb7cxhighcah7c20a2cdlvr1f8` FOREIGN KEY (`skill_id`)
REFERENCES `skill` (`skill_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

```

-- Data exporting was unselected.

-- Dumping structure for table works.company
CREATE TABLE IF NOT EXISTS `company` (
  `comp_id` bigint(20) NOT NULL AUTO_INCREMENT,
  `about` varchar(2000) DEFAULT NULL,
  `email` varchar(255) NOT NULL,
  `comp_name` varchar(255) NOT NULL,
  `phone` varchar(255) NOT NULL,
  `web_url` varchar(255) DEFAULT NULL,
  `address` bigint(20) NOT NULL,
  PRIMARY KEY (`comp_id`),
  UNIQUE KEY `UK_rvp2hunsq4sgmpxe3a7i1ym3m` (`address`),
  CONSTRAINT `FKd5occp4cjwihejbxdbpvkp5tv` FOREIGN KEY (`address`)
REFERENCES `address` (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;

-- Data exporting was unselected.

-- Dumping structure for table works.job
CREATE TABLE IF NOT EXISTS `job` (
  `job_id` bigint(20) NOT NULL AUTO_INCREMENT,
  `job_desc` varchar(2000) NOT NULL,
  `job_name` varchar(255) NOT NULL,
  `company` bigint(20) DEFAULT NULL,
  PRIMARY KEY (`job_id`),
  KEY `FKbaqlvluu78phmo9ld89um7wnm` (`company`),
  CONSTRAINT `FKbaqlvluu78phmo9ld89um7wnm` FOREIGN KEY (`company`)
REFERENCES `company` (`comp_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;

-- Data exporting was unselected.

-- Dumping structure for table works.job_skill
CREATE TABLE IF NOT EXISTS `job_skill` (
  `more_infos` varchar(1000) DEFAULT NULL,
  `skill_level` tinyint(4) NOT NULL CHECK (`skill_level` between 0 and 2),
  `job_id` bigint(20) NOT NULL,
  `skill_id` bigint(20) NOT NULL,
  PRIMARY KEY (`job_id`,`skill_id`),
  KEY `FKj33qbbf3vk1lvhqpcosnh54u1` (`skill_id`),
  CONSTRAINT `FK9ix4wg520ii2gu2felxdhdup6` FOREIGN KEY (`job_id`) REFERENCES
`job` (`job_id`),
  CONSTRAINT `FKj33qbbf3vk1lvhqpcosnh54u1` FOREIGN KEY (`skill_id`)
REFERENCES `skill` (`skill_id`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;

-- Data exporting was unselected.

-- Dumping structure for table works.skill
CREATE TABLE IF NOT EXISTS `skill` (
  `skill_id` bigint(20) NOT NULL AUTO_INCREMENT,
  `skill_description` varchar(255) DEFAULT NULL,
  `skill_name` varchar(255) DEFAULT NULL,
  `type` tinyint(4) DEFAULT NULL CHECK (`type` between 0 and 2),
  PRIMARY KEY (`skill_id`)

```

```
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```