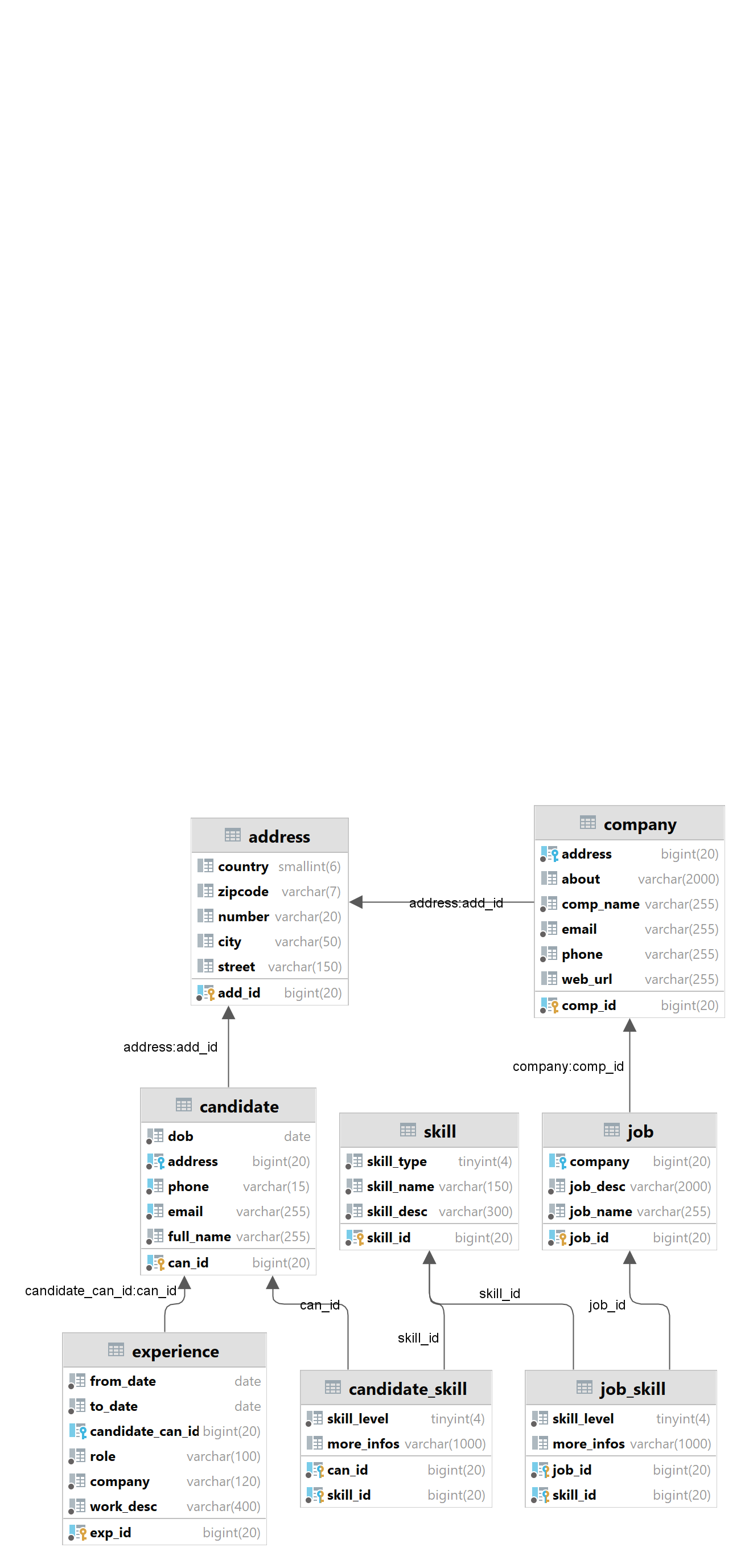
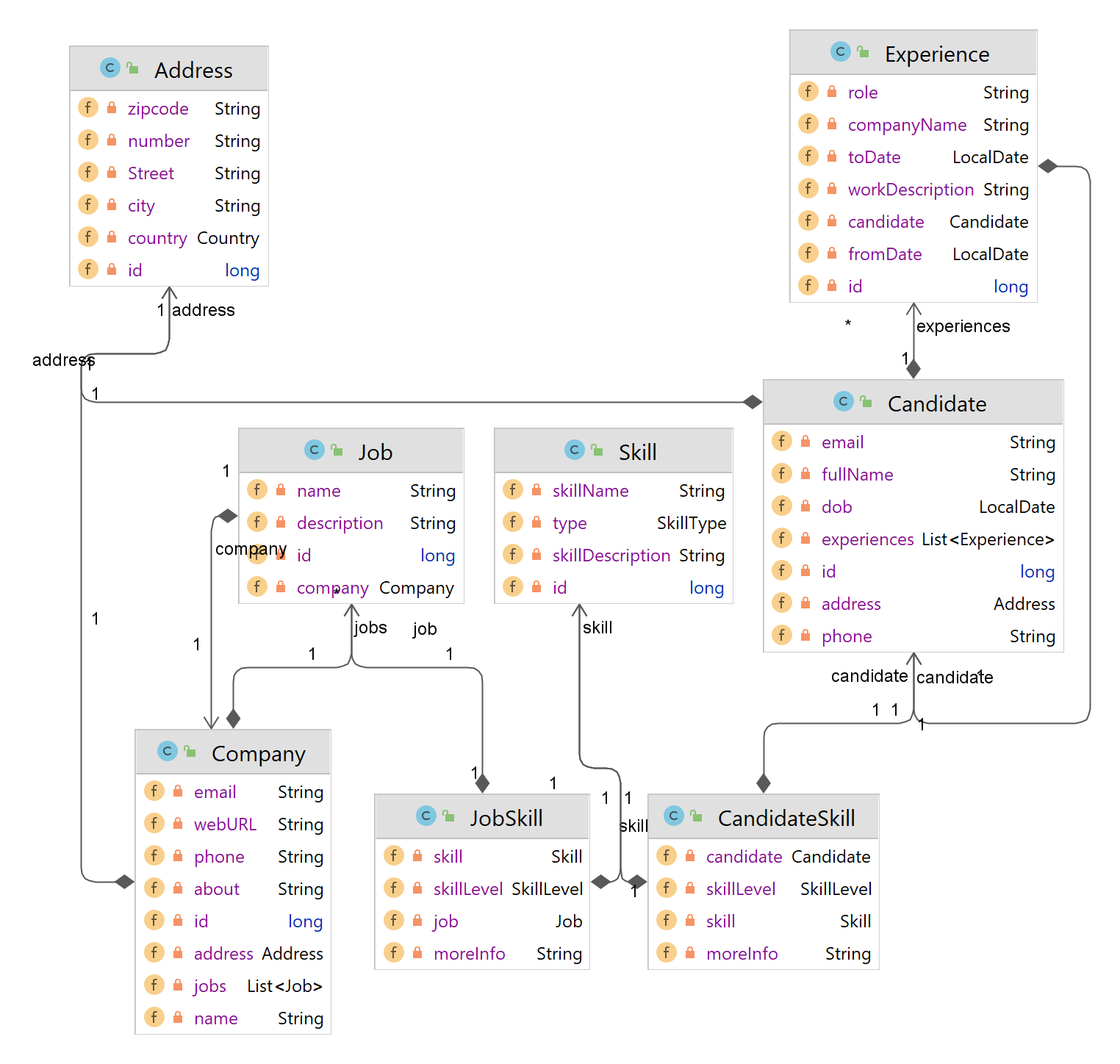
**LAB WEEK 05**

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



1. Tạo các enities 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\_qfut8ruekode092nlkipgl09g` (`email`),  **UNIQUE** **KEY** `UK\_9i5yt1gvm0chg5e10qkns7tll` (`phone`),  **UNIQUE** **KEY** `UK\_m8qhlm4wu215gr34dhxp0dour` (`address`),  **CONSTRAINT** `FKa8gnyyhbb2qnhp94grci1n0o9` **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** `FKb7cxhiqhcah7c20a2cdlvr1f8` (`skill\_id`),  **CONSTRAINT** `FKb0m5tm3fi0upa3b3kjx3vrlxs` **FOREIGN** **KEY** (`can\_id`) **REFERENCES** `candidate` (`id`),  **CONSTRAINT** `FKb7cxhiqhcah7c20a2cdlvr1f8` **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**; |