**Human Resources Migration Workflow System**

Human Resources Machine

**Section 5. Database Objects Design**

**Section 5.1 Triggers Design**

*List your main 2-3 triggers here, and attach the MySQL Workbench document.*

|  |  |  |  |
| --- | --- | --- | --- |
| Table | Timing | Description | DDL |
| User | After Insert | Create the corresponding row in plays for the new user. | CREATE DEFINER = CURRENT\_USER TRIGGER `HR\_Migration\_System`.`User\_AFTER\_INSERT` AFTER INSERT ON `User` FOR EACH ROW  BEGIN  insert into Plays (username, ee\_id, er\_id, hr\_id) values (NEW.username, null, null, null);  END |
| User | AFTER UPDATE | Change the corresponding row in plays for the changed user. | CREATE DEFINER = CURRENT\_USER TRIGGER `HR\_Migration\_System`.`User\_AFTER\_UPDATE` AFTER UPDATE ON `User` FOR EACH ROW  BEGIN  insert into Plays (username, ee\_id, er\_id, hr\_id) values (NEW.username, null, null, null);  END |

**Section 5.2 Stored Procedures Design**

*List your main stored procedures here and attach the MySQL Workbench document.*

|  |  |  |  |
| --- | --- | --- | --- |
| Procedure name | Parameters | Description | DDL |
| add\_role | username varchar(20), role varchar(20) | To create a role for a certain user | CREATE PROCEDURE `add\_role` (username VARCHAR(20), role VARCHAR(20))  BEGIN  if role='interviewer' then  insert into Interviewer values();  elseif role='interviewee' then  insert into Interviewee values();  elseif role='HR\_manager' then  insert into HR\_manager values();  else  SIGNAL SQLSTATE 'HY000' SET MESSAGE\_TEXT = 'Not recognized role' ;  end if;  END |
| add\_app | username varchar(20), pos\_id int | To add an application for interviewee with the username. | CREATE PROCEDURE `add\_app` (username varchar(20), resume varchar(45), pos\_id int)  BEGIN  declare ee\_id int;  declare salary int;  set eeid = get\_role\_id(username, 'interviewee');  select expected\_salary into salary from Position where position\_id = pos\_id;  insert into Applies (resume, status, date, initial\_salary, ee\_id, pos\_id)  values (resume, 0, NOW(), salary, ee\_id, pos\_id);  END |

**Section 5.3 Functions**

*List your main functions (if necessary) here and attach the MySQL Workbench document.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Function name | Parameters | Return | Description | DDL |
| get\_role\_id | username varchar(20),  role varchar(20) | int | Get the id of some role of a certain user | CREATE PROCEDURE `get\_role\_id` (username varchar(20), role varchar(20))  BEGIN  declare role\_id int;  if role='interviewee' then  select ee\_id from Plays where username=username;  elseif role='interviewer' then  select er\_id from Plays where username=username;  elseif role='HR\_manager' then  select hr\_id from Plays where username=username;  else  SIGNAL SQLSTATE 'HY000' SET MESSAGE\_TEXT = 'Not recognized role' ;  end if;  END |
| get\_avg \_score | ee\_name varchar(20),  pos\_id  int | float | Get the average score for one application. | CREATE FUNCTION `get\_avg\_score` (ee\_name varchar(20), pos\_id int)  RETURNS float  BEGIN  declare ee\_id int;  select ee\_id into ee\_id from Plays where username=ee\_name;  return (select avg(score) from Interview where ee\_id=ee\_id and pos\_id=pos\_id);  END |

**Section 4.4 Your Meeting Log**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***No*** | ***Date and time*** | ***Duration*** | ***Location*** | ***Discussion topic*** | ***Attenders*** |
| 1 | 3/17/2018:3:00pm | 2.5 hrs | 709 Gewu | Project selection | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 2 | 3/23/2018:3:00pm | 2 hrs | 709 Gewu | Requirements | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 3 | 3/25/2018:8:00pm | 2 hrs | 709 Gewu | Requirements | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 4 | 4/1/2018:4:00pm | 2 hrs | 709 Gewu | Requirements | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 5 | 4/8/2018:19:00pm | 2 hrs | 709 Gewu | Use Case Diagram | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 6 | 4/14/2018:21:00pm | 1 hr | 709 Gewu | Use Case Diagram | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 7 | 4/22/2018:16:00pm | 3 hrs | 709 Gewu | Application Design | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 8 | 4/29/2018:20:00pm | 3 hrs | 709 Gewu | User Interface Design | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 9 | 5/13/2018:20:00pm | 3 hrs | 709 Gewu | Logical Database Design | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |
| 10 | 5/20/2018:17:00pm | 3 hrs | 709 Gewu | Database Objects Design | Ning Zhang  Yingkai Sun  Yue Han  Yukun Ma |