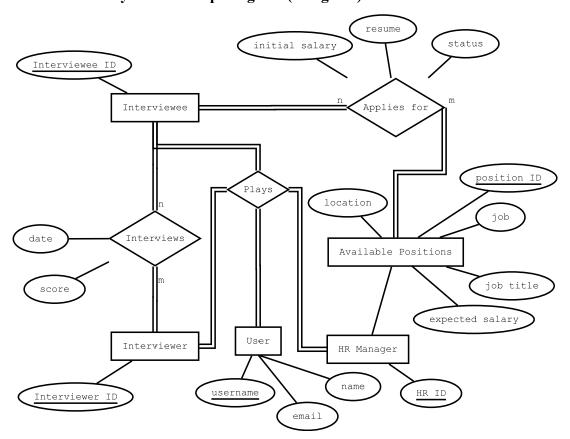
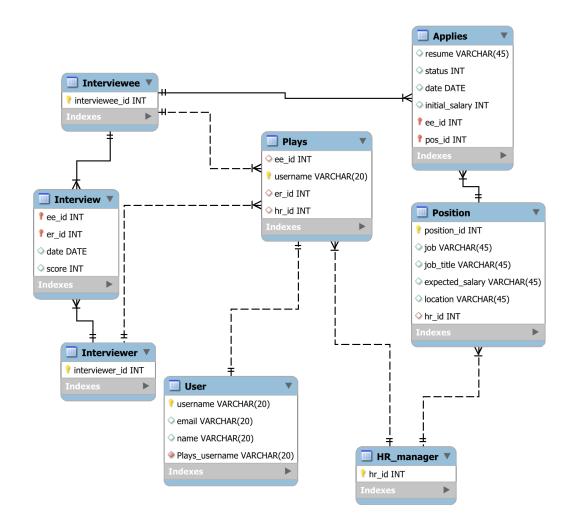
## **Human Resources Migration Workflow System**

Human Resources Machine

## Section 4. Logical Database Design Section 4.1 Entity Relationship Diagram (using Dia)



Section 4.2 Logical Database Design (using MySQL Workbench)



## Section 4.3 Database Schema (A system generated list of tables with attributes and constraints)

- -- MySQL Script generated by MySQL Workbench
- -- Sun May 13 11:29:26 2018
- -- Model: New Model Version: 1.0
- -- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHE	CKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET	@OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS
FOREIGN_KEY_CHECKS=	0;
SET	@OLD_SQL_MODE=@@SQL_MODE
SQL_MODE='TRADITIONA	AL,ALLOW_INVALID_DATES';
Schema HR_Migration_Sys	stem

```
-- Schema HR_Migration_System
CREATE SCHEMA IF NOT EXISTS 'HR Migration System' DEFAULT CHARACTER SET utf8;
USE 'HR_Migration_System';
-- Table 'HR Migration System'.'Interviewee'
-- -----
DROP TABLE IF EXISTS 'HR Migration System'.'Interviewee';
CREATE TABLE IF NOT EXISTS 'HR_Migration_System'.'Interviewee' (
  'interviewee id' INT NOT NULL AUTO INCREMENT,
 PRIMARY KEY ('interviewee_id'),
 UNIQUE INDEX 'interviewee id UNIQUE' ('interviewee id' ASC))
ENGINE = InnoDB;
-- Table 'HR Migration System'.'Interviewer'
DROP TABLE IF EXISTS 'HR_Migration_System'.'Interviewer';
CREATE TABLE IF NOT EXISTS 'HR Migration System'.'Interviewer' (
  'interviewer id' INT NOT NULL AUTO INCREMENT,
 PRIMARY KEY ('interviewer id'),
 UNIQUE INDEX 'interviewer_id_UNIQUE' ('interviewer_id' ASC))
ENGINE = InnoDB;
-- Table 'HR_Migration_System'.'HR_manager'
-- -----
DROP TABLE IF EXISTS 'HR Migration System'. 'HR manager';
CREATE TABLE IF NOT EXISTS 'HR Migration System'. 'HR manager' (
 'hr_id' INT NOT NULL AUTO_INCREMENT,
 PRIMARY KEY ('hr id'),
 UNIQUE INDEX 'hr_id_UNIQUE' ('hr_id' ASC))
ENGINE = InnoDB;
-- Table 'HR_Migration_System'.'Position'
______
```

```
CREATE TABLE IF NOT EXISTS 'HR Migration System'. 'Position' (
  'position_id' INT NOT NULL,
  'job' VARCHAR(45) NULL,
  'job_title' VARCHAR(45) NULL,
  'expected_salary' VARCHAR(45) NULL,
  'location' VARCHAR(45) NULL,
  'hr id' INT NULL,
  PRIMARY KEY ('position_id'),
  UNIQUE INDEX 'position_id_UNIQUE' ('position_id' ASC),
  INDEX 'hr id idx' ('hr id' ASC),
  CONSTRAINT `hr_id`
    FOREIGN KEY ('hr id')
    REFERENCES 'HR_Migration_System'.'HR_manager' ('hr_id')
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table 'HR_Migration_System'.'Plays'
-- -----
DROP TABLE IF EXISTS 'HR Migration System'.' Plays';
CREATE TABLE IF NOT EXISTS 'HR_Migration_System'.'Plays' (
  'ee id' INT NULL,
  'username' VARCHAR(20) NOT NULL,
  'er id' INT NULL,
  'hr id' INT NULL,
  PRIMARY KEY ('username'),
  UNIQUE INDEX 'username UNIQUE' ('username' ASC),
  INDEX 'ee_id_idx' ('ee_id' ASC),
  INDEX 'er_id_idx' ('er_id' ASC),
  INDEX 'hr id idx' ('hr id' ASC),
  CONSTRAINT 'ee_id'
    FOREIGN KEY ('ee id')
    REFERENCES 'HR_Migration_System'.'Interviewee' ('interviewee_id')
    ON DELETE NO ACTION
    ON UPDATE NO ACTION,
  CONSTRAINT 'er_id'
    FOREIGN KEY ('er_id')
    REFERENCES 'HR_Migration_System'.'Interviewer' ('interviewer_id')
    ON DELETE NO ACTION
```

DROP TABLE IF EXISTS 'HR\_Migration\_System'.'Position';

```
ON UPDATE NO ACTION,
 CONSTRAINT 'hr id'
   FOREIGN KEY ('hr id')
   REFERENCES 'HR_Migration_System'.'HR_manager' ('hr_id')
   ON DELETE NO ACTION
   ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table 'HR_Migration_System'.'User'
-- -----
DROP TABLE IF EXISTS 'HR_Migration_System'.'User';
CREATE TABLE IF NOT EXISTS 'HR_Migration_System'.'User' (
  'username' VARCHAR(20) NOT NULL,
  'email' VARCHAR(20) NULL,
  'name' VARCHAR(20) NULL,
  'Plays username' VARCHAR(20) NOT NULL,
 PRIMARY KEY ('username'),
 UNIQUE INDEX 'username UNIQUE' ('username' ASC),
 INDEX 'fk_User_Plays_idx' ('Plays_username' ASC),
 CONSTRAINT 'fk User Plays'
   FOREIGN KEY ('Plays username')
   REFERENCES 'HR Migration System'.'Plays' ('username')
   ON DELETE NO ACTION
   ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table 'HR Migration System'. 'Applies'
-- ------
DROP TABLE IF EXISTS 'HR Migration System'. 'Applies';
CREATE TABLE IF NOT EXISTS 'HR_Migration_System'.'Applies' (
  'resume' VARCHAR(45) NULL,
  'status' INT NULL,
  'date' DATE NULL,
  'initial salary' INT NULL,
  'ee_id' INT NOT NULL,
  'pos_id' INT NOT NULL,
 PRIMARY KEY ('ee_id', 'pos_id'),
 INDEX 'pos id idx' ('pos id' ASC),
```

```
CONSTRAINT 'ee id'
   FOREIGN KEY ('ee id')
   REFERENCES 'HR Migration System'.'Interviewee' ('interviewee id')
   ON DELETE NO ACTION
   ON UPDATE NO ACTION,
 CONSTRAINT 'pos_id'
   FOREIGN KEY ('pos id')
   REFERENCES 'HR_Migration_System'.'Position' ('position_id')
   ON DELETE NO ACTION
   ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table 'HR_Migration_System'.'Interview'
DROP TABLE IF EXISTS 'HR Migration System'. 'Interview';
CREATE TABLE IF NOT EXISTS 'HR Migration System'. 'Interview' (
  'ee_id' INT NOT NULL,
  'er id' INT NOT NULL,
  'date' DATE NULL,
  'score' INT NULL,
 PRIMARY KEY ('ee id', 'er id'),
 INDEX 'er_id_idx' ('er_id' ASC),
 CONSTRAINT 'ee_id'
   FOREIGN KEY ('ee_id')
   REFERENCES 'HR Migration System'.'Interviewee' ('interviewee id')
   ON DELETE NO ACTION
   ON UPDATE NO ACTION,
 CONSTRAINT 'er_id'
   FOREIGN KEY ('er id')
   REFERENCES 'HR Migration System'. 'Interviewer' ('interviewer id')
   ON DELETE NO ACTION
   ON UPDATE NO ACTION)
ENGINE = InnoDB;
SET SQL MODE=@OLD SQL MODE;
SET FOREIGN KEY CHECKS=@OLD FOREIGN KEY CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
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
--	--	---------------------