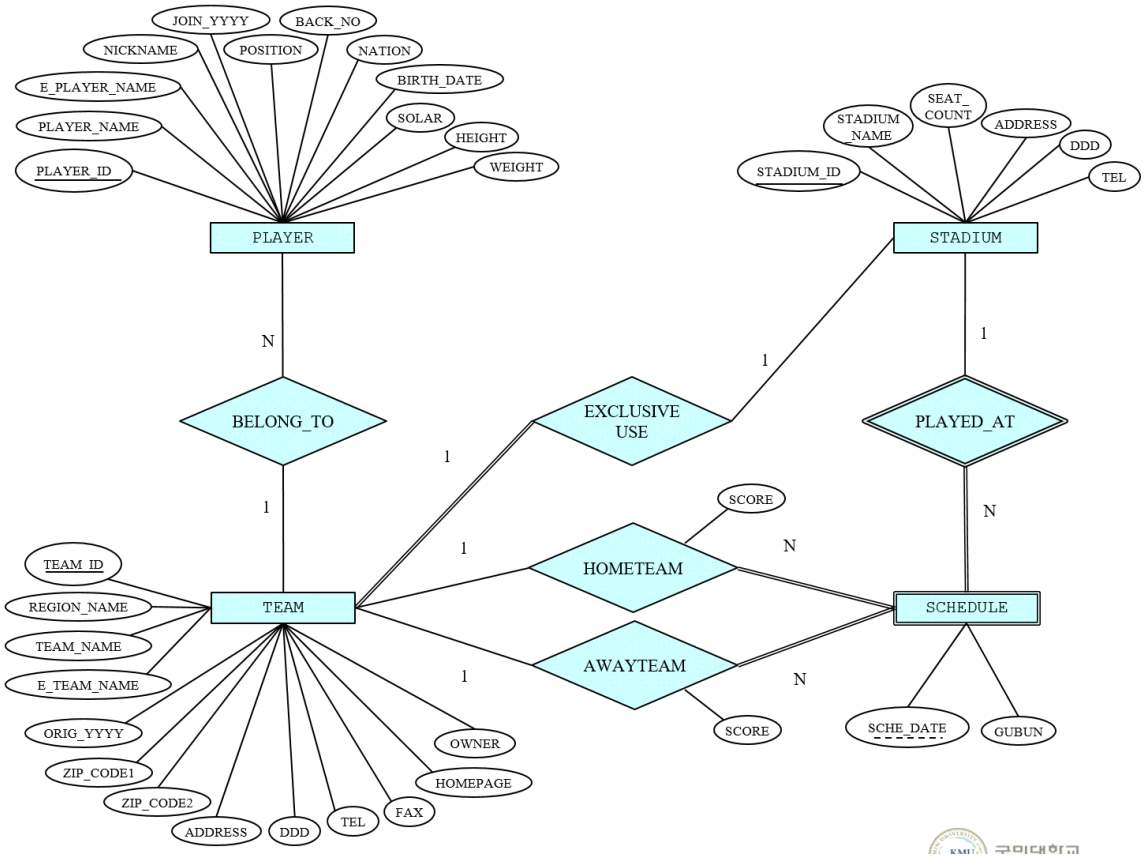
Report 2 : MySQL 모델링 - 리포트 샘플

KleagueDB의 ER 다이어그램



1. 논리적 설계의 산출물인 relation scheme을 설계하시오.

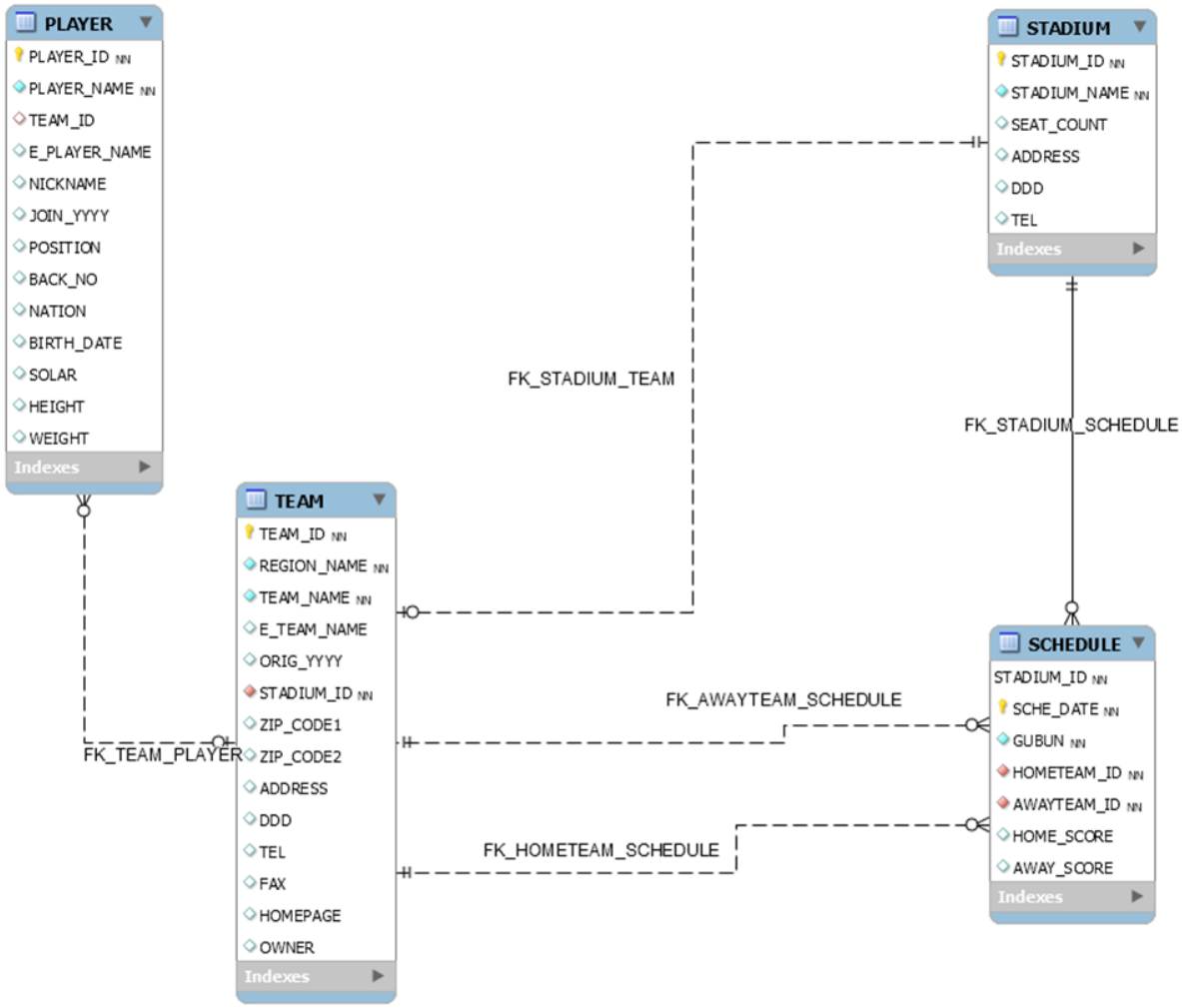
1.1 Entity relations :
STADIUM (STADIUM_ID, STADIUM_NAME, SEAT_COUNT, ADDRESS, DDD, TEL)
TEAM (TEAM_ID, REGEON_NAME, TEAM_NAME, E_TEAM_NAME, ORIG_YYYY,
ZIP_CODE1, ZIP_CODE2, ADDRESS, DDD, TEL, FAX, HOMEPAGE,
OWNER, STADIUM_ID* NN)
PLAYER (PLAYER_ID, PLAYER_NAME, E_PLAYER_NAME, NICKNAME, JOIN_YYYY,
POSITIION, BACK_NO, NATION, BIRTH_DATE, SOLAR, HEIGHT, WEIGHT,
TEAM_ID*)

1.2 Entity relations (existential dependency) :
SCHEDULE (STADIUM_ID*, SCHE_DATE, GUBUN,
HOMETEAM_ID* NN, AWAYTEAM_ID* NN, HOMESCORE, AWAYSCORE)

1.3 Relationship relations : 없음

1.4 attribute relations : 없음

2. EER 다이어그램



3. DDL script

```
-- MySQL Script generated by MySQL Workbench
-- Wed Apr  1 16:39:28 2020
-- Model: New Model    Version: 1.0
-- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHECKS=@@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='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO
_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';

-- -----------------------------------------------------
```

```
-- Schema kleague
-- -----------------------------------------------------

-- -----------------------------------------------------
-- Schema kleague
-- -----------------------------------------------------
CREATE SCHEMA IF NOT EXISTS `kleague` ;
USE `kleague` ;

-- -----------------------------------------------------
-- Table `kleague`.`STADIUM`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `kleague`.`STADIUM` (
  `STADIUM_ID` CHAR(3) NOT NULL,
  `STADIUM_NAME` VARCHAR(40) NOT NULL,
  `SEAT_COUNT` INT NULL DEFAULT NULL,
  `ADDRESS` VARCHAR(60) NULL DEFAULT NULL,
  `DDD` VARCHAR(3) NULL DEFAULT NULL,
  `TEL` VARCHAR(10) NULL DEFAULT NULL,
  PRIMARY KEY (`STADIUM_ID`));


-- -----------------------------------------------------
-- Table `kleague`.`TEAM`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `kleague`.`TEAM` (
  `TEAM_ID` CHAR(3) NOT NULL,
  `REGION_NAME` VARCHAR(8) NOT NULL,
  `TEAM_NAME` VARCHAR(40) NOT NULL,
  `E_TEAM_NAME` VARCHAR(50) NULL DEFAULT NULL,
  `ORIG_YYYY` CHAR(4) NULL DEFAULT NULL,
  `STADIUM_ID` CHAR(3) NOT NULL,
  `ZIP_CODE1` CHAR(3) NULL DEFAULT NULL,
  `ZIP_CODE2` CHAR(3) NULL DEFAULT NULL,
  `ADDRESS` VARCHAR(80) NULL DEFAULT NULL,
  `DDD` VARCHAR(3) NULL DEFAULT NULL,
  `TEL` VARCHAR(10) NULL DEFAULT NULL,
  `FAX` VARCHAR(10) NULL DEFAULT NULL,
  `HOMEPAGE` VARCHAR(50) NULL DEFAULT NULL,
  `OWNER` VARCHAR(10) NULL DEFAULT NULL,
  PRIMARY KEY (`TEAM_ID`),
  INDEX `FK_STADIUM_TEAM` (`STADIUM_ID` ASC) VISIBLE,
  CONSTRAINT `FK_STADIUM_TEAM`
    FOREIGN KEY (`STADIUM_ID`)
    REFERENCES `kleague`.`STADIUM` (`STADIUM_ID`)
    ON DELETE RESTRICT
    ON UPDATE CASCADE);


-- -----------------------------------------------------
-- Table `kleague`.`SCHEDULE`
```

```
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `kleague`.`SCHEDULE` (
  `STADIUM_ID` CHAR(3) NOT NULL,
  `SCHE_DATE` CHAR(8) NOT NULL,
  `GUBUN` CHAR(1) NOT NULL,
  `HOMETEAM_ID` CHAR(3) NOT NULL,
  `AWAYTEAM_ID` CHAR(3) NOT NULL,
  `HOME_SCORE` TINYINT NULL DEFAULT NULL,
  `AWAY_SCORE` TINYINT NULL DEFAULT NULL,
  PRIMARY KEY (`SCHE_DATE`, `STADIUM_ID`),
  INDEX `FK_HOMETEAM_SCHEDULE` (`HOMETEAM_ID` ASC) VISIBLE,
  INDEX `FK_AWAYTEAM_SCHEDULE` (`AWAYTEAM_ID` ASC) VISIBLE,
  CONSTRAINT `FK_STADIUM_SCHEDULE`
    FOREIGN KEY (`STADIUM_ID`)
    REFERENCES `kleague`.`STADIUM` (`STADIUM_ID`)
    ON DELETE RESTRICT
    ON UPDATE CASCADE,
  CONSTRAINT `FK_HOMETEAM_SCHEDULE`
    FOREIGN KEY (`HOMETEAM_ID`)
    REFERENCES `kleague`.`TEAM` (`TEAM_ID`)
    ON DELETE RESTRICT
    ON UPDATE CASCADE,
  CONSTRAINT `FK_AWAYTEAM_SCHEDULE`
    FOREIGN KEY (`AWAYTEAM_ID`)
    REFERENCES `kleague`.`TEAM` (`TEAM_ID`)
    ON DELETE RESTRICT
    ON UPDATE CASCADE);


-- -----------------------------------------------------
-- Table `kleague`.`PLAYER`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS `kleague`.`PLAYER` (
  `PLAYER_ID` CHAR(7) NOT NULL,
  `PLAYER_NAME` VARCHAR(20) NOT NULL,
  `TEAM_ID` CHAR(3) NULL,
  `E_PLAYER_NAME` VARCHAR(40) NULL DEFAULT NULL,
  `NICKNAME` VARCHAR(30) NULL DEFAULT NULL,
  `JOIN_YYYY` CHAR(4) NULL DEFAULT NULL,
  `POSITION` VARCHAR(10) NULL DEFAULT NULL,
  `BACK_NO` TINYINT NULL DEFAULT NULL,
  `NATION` VARCHAR(20) NULL DEFAULT NULL,
  `BIRTH_DATE` DATE NULL DEFAULT NULL,
  `SOLAR` CHAR(1) NULL DEFAULT NULL,
  `HEIGHT` SMALLINT NULL DEFAULT NULL,
  `WEIGHT` SMALLINT NULL DEFAULT NULL,
  PRIMARY KEY (`PLAYER_ID`),
  INDEX `FK_TEAM_PLAYER` (`TEAM_ID` ASC) VISIBLE,
  CONSTRAINT `FK_TEAM_PLAYER`
    FOREIGN KEY (`TEAM_ID`)
    REFERENCES `kleague`.`TEAM` (`TEAM_ID`)
```

```
    ON DELETE RESTRICT
    ON UPDATE CASCADE);


SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```

4. SqlDBM 다이어그램