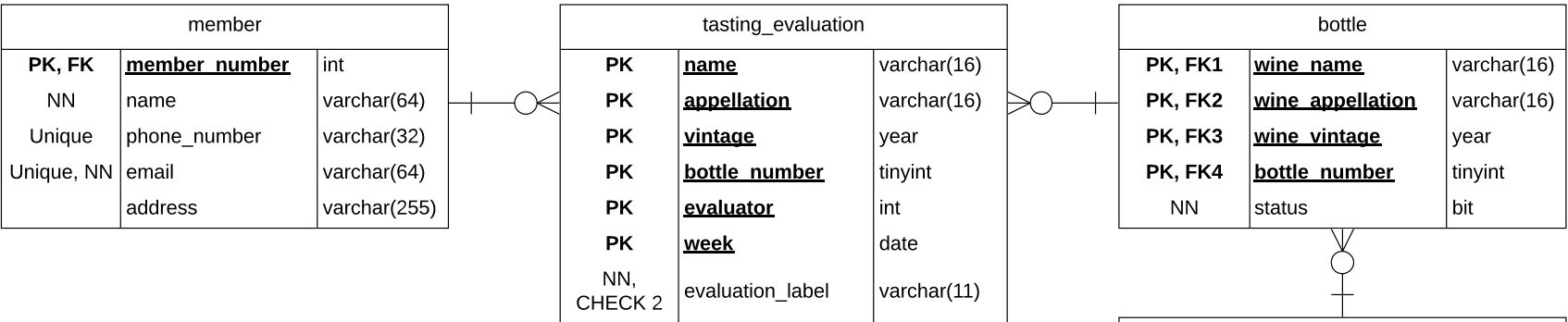


Assignment 1 - DBSS

Denis | February 7, 2020



```
SET FOREIGN_KEY_CHECKS=OFF;
DROP TABLE IF EXISTS `tasting_evaluation`;
DROP TABLE IF EXISTS `bottle`;
DROP TABLE IF EXISTS `wine`;
DROP TABLE IF EXISTS `member`;
SET FOREIGN_KEY_CHECKS=ON;
CREATE TABLE `member` (
  `member_number` INT,
  `name` VARCHAR(64) NOT NULL,
  `phone_number` VARCHAR(32) UNIQUE,
  `email` VARCHAR(64) NOT NULL UNIQUE,
  `address` VARCHAR(255),
  PRIMARY KEY (`member_number`)
) ENGINE=INNODB;
CREATE TABLE `wine` (
  `name` varchar(16),
  `appellation` varchar(16),
  `vintage` year,
  `alcohol_degree` decimal check (`alcohol_degree` > 0 and `alcohol_degree` < 20),
  `country` varchar(32),
  `grape_variety` varchar(32),
  primary key(`name`, `appellation`, `vintage`)
) ENGINE=INNODB;
CREATE TABLE `bottle` (
  `wine_name` varchar(16) not null,
  `wine_appellation` varchar(16) not null,
  `wine_vintage` year not null,
  `bottle_number` tinyint not null,
  `status` bit not null,
  primary key(`wine_name`, `wine_appellation`, `wine_vintage`, `bottle_number`)
) ENGINE=INNODB;
ALTER TABLE `bottle`
  ADD FOREIGN KEY (`wine_name`, `wine_appellation`, `wine_vintage`)
  REFERENCES `wine` (`name`, `appellation`, `vintage`)
  ON UPDATE CASCADE
  ON DELETE CASCADE;
CREATE TABLE `tasting_evaluation` (
  `bottle_name` varchar(16) not null,
  `bottle_appellation` varchar(16) not null,
  `bottle_vintage` year not null,
  `bottle_number` tinyint not null,
  `evaluator` int not null,
  `week` date not null,
  `evaluator_label` varchar(11) not null check (
    `evaluator_label` = `outstanding`
    or `evaluator_label` = `mediocre`
    or `evaluator_label` = `bad`
    or `evaluator_label` = `good`),
  primary key(`bottle_name`, `bottle_appellation`, `bottle_vintage`, `bottle_number`, `evaluator`, `week`)
) ENGINE=INNODB ;
ALTER TABLE `tasting_evaluation`
  ADD FOREIGN KEY (`bottle_name`, `bottle_appellation`, `bottle_vintage`, `bottle_number`)
  REFERENCES `bottle` (`wine_name`, `wine_appellation`, `wine_vintage`, `bottle_number`)
  ON UPDATE CASCADE
  ON DELETE CASCADE;
ALTER TABLE `tasting_evaluation`
  ADD FOREIGN KEY (`evaluator`)
  REFERENCES `member` (`member_number`)
  ON UPDATE CASCADE
  ON DELETE CASCADE;
```