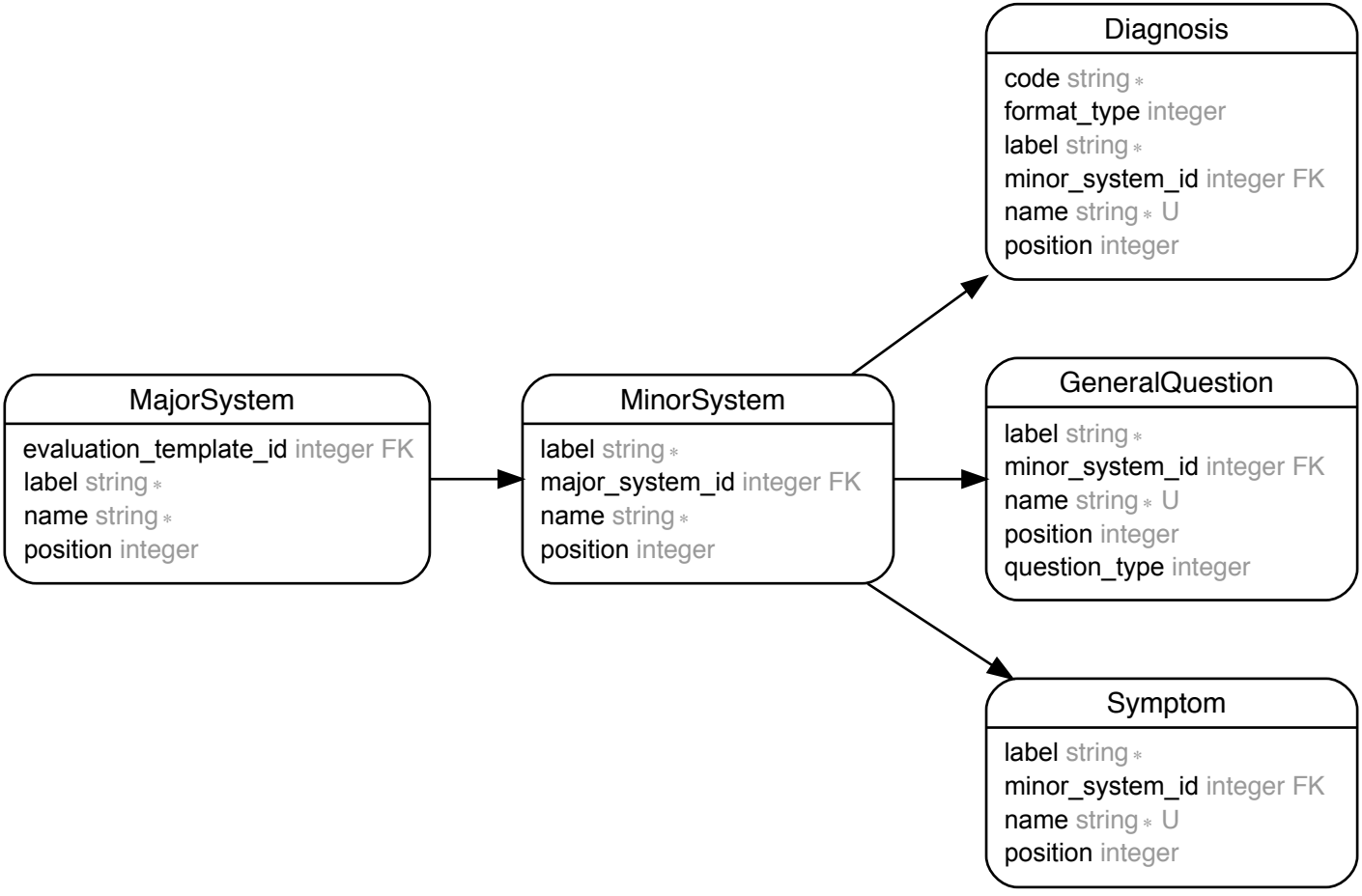MinorSystem ERD