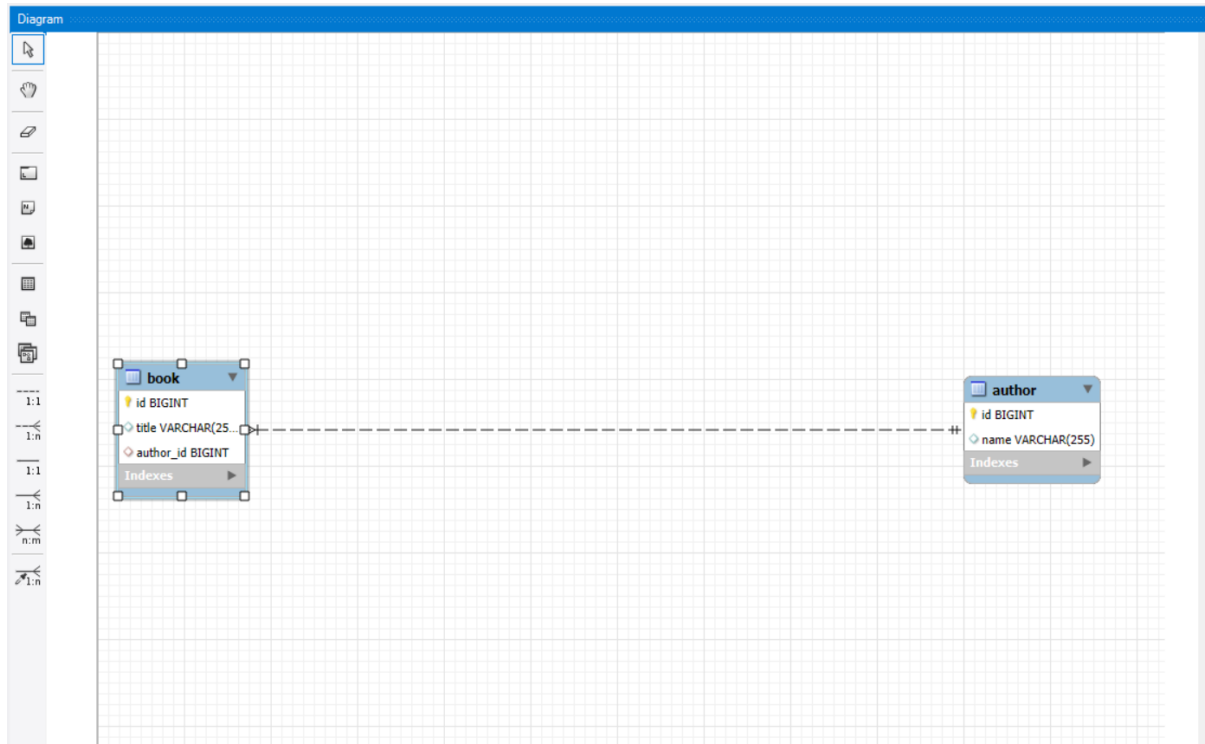


1. Many To One Mapping

i. MySQL Database Entity Relationship Diagram



ii. Console:

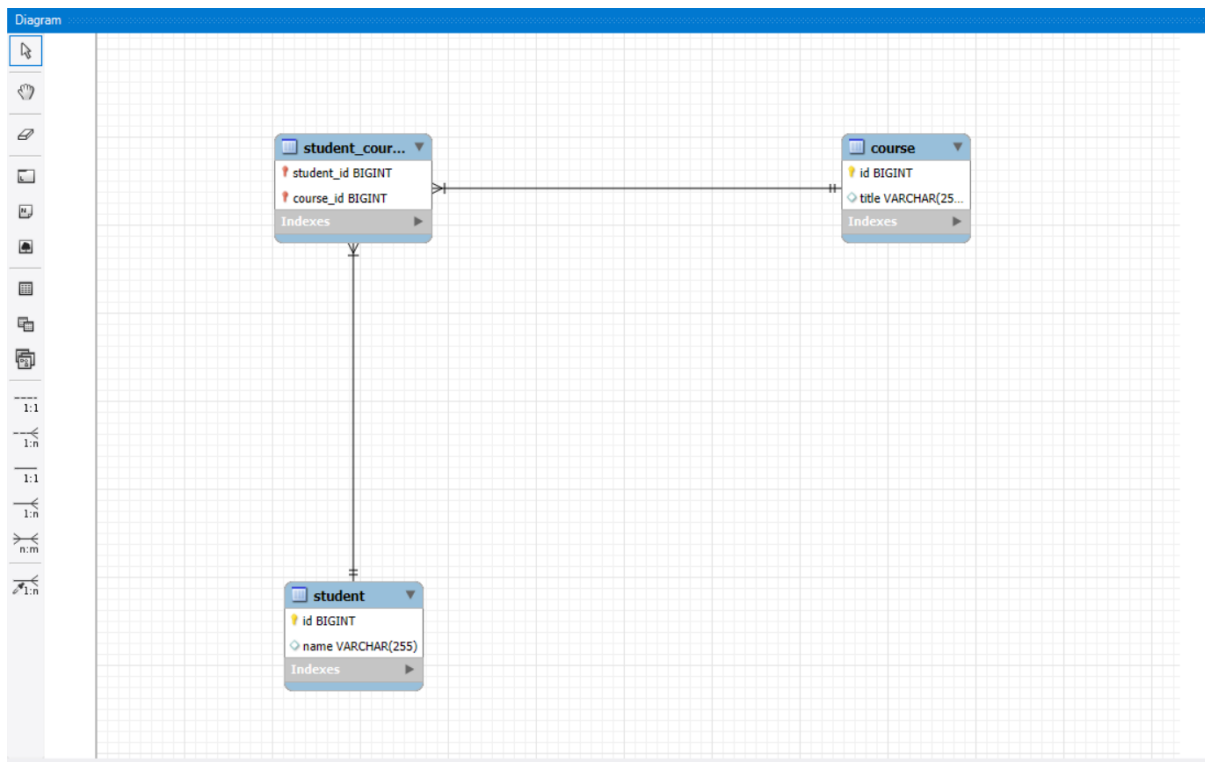
```

2025-08-10T14:07:15.379+05:30 INFO 1476 --- [Many_to_One_Mapping] [ restartedMain] org.hibernate.orm.connections.pooling : HHH10001005: Database info:
Database JDBC URL [Connecting through datasource 'HikariDataSource (HikariPool-1)']
Database driver: undefined/unknown
Database version: 8.0.42
Autocommit mode: undefined/unknown
Isolation level: undefined/unknown
Minimum pool size: undefined/unknown
Maximum pool size: undefined/unknown
2025-08-10T14:07:16.628+05:30 INFO 1476 --- [Many_to_One_Mapping] [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH1000489: No JTA platform available (set 'hib
Hibernate:
create table author (
  id bigint not null auto_increment,
  name varchar(255),
  primary key (id)
) engine=InnoDB
Hibernate:
create table book (
  id bigint not null auto_increment,
  title varchar(255),
  author_id bigint,
  primary key (id)
) engine=InnoDB
Hibernate:
alter table book
add constraint FKklnrv3weler2ftkweewlky958
foreign key (author_id)
references author (id)
2025-08-10T14:07:16.836+05:30 INFO 1476 --- [Many_to_One_Mapping] [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persi
2025-08-10T14:07:16.901+05:30 WARN 1476 --- [Many_to_One_Mapping] [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default
2025-08-10T14:07:17.632+05:30 INFO 1476 --- [Many_to_One_Mapping] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2025-08-10T14:07:17.711+05:30 INFO 1476 --- [Many_to_One_Mapping] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with contex
2025-08-10T14:07:17.725+05:30 INFO 1476 --- [Many_to_One_Mapping] [ restartedMain] c.k.mapping.ManyToOneMappingApplication : Started ManyToOneMappingApplication in 6.404 s

```

2. Many To Many Mapping

i. MySQL Database Entity Relationship Diagram



ii. Console:

```

2025-08-10T14:25:40.117+05:30 INFO 9760 --- [Many_to_Many_Mapping] [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000489: No JTA platform available
Hibernate:
    create table course (
      id bigint not null auto_increment,
      title varchar(255),
      primary key (id)
    ) engine=InnoDB
Hibernate:
    create table student (
      id bigint not null auto_increment,
      name varchar(255),
      primary key (id)
    ) engine=InnoDB
Hibernate:
    create table student_course (
      student_id bigint not null,
      course_id bigint not null,
      primary key (student_id, course_id)
    ) engine=InnoDB
Hibernate:
    alter table student_course
      add constraint FKejrk4gy8iqgmspsanaji90ws
      foreign key (course_id)
      references course (id)
Hibernate:
    alter table student_course
      add constraint FKq7yw2wg9wlt2cnj480hcdn6dq
      foreign key (student_id)
      references student (id)
2025-08-10T14:25:40.613+05:30 INFO 9760 --- [Many_to_Many_Mapping] [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory
2025-08-10T14:25:40.682+05:30 WARN 9760 --- [Many_to_Many_Mapping] [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by
2025-08-10T14:25:41.423+05:30 INFO 9760 --- [Many_to_Many_Mapping] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port
2025-08-10T14:25:41.490+05:30 INFO 9760 --- [Many_to_Many_Mapping] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080 (http wi
2025-08-10T14:25:41.502+05:30 INFO 9760 --- [Many_to_Many_Mapping] [ restartedMain] c.k.m.ManyToManyMappingApplication : Started ManyToManyMappingApplication
  
```