

Hibernate and Primary Keys

Terminology

Primary Key

Uniquely identifies each row in a table

Must be a unique value

Cannot contain NULL values



MySQL - Auto Increment

```
CREATE TABLE student (
  id int(11) NOT NULL AUTO INCREMENT,
  first name varchar(45) DEFAULT NULL,
  last_name varchar(45) DEFAULT NULL,
  email varchar(45) DEFAULT NULL,
  PRIMARY KEY (id)
```



Hibernate Identity - Primary Key

```
@Entity
@Table(name="student")
public class Student {
 @ld
 @Column(name="id")
 private int id;
```



Hibernate Identity - Primary Key

```
@Entity
@Table(name="student")
public class Student {
 @ld
@GeneratedValue(strategy=GenerationType.IDENTITY)
 @Column(name="id")
 private int id;
```



ID Generation Strategies

Name	Description
GenerationType.AUTO	Pick an appropriate strategy for the particular database
GenerationType.IDENTITY	Assign primary keys using database identity column
GenerationType.SEQUENCE	Assign primary keys using a database sequence
GenerationType.TABLE	Assign primary keys using an underlying database table to ensure uniqueness



Bonus Bonus

• You can define your own CUSTOM generation strategy:-)

Create subclass of org.hibernate.id.SequenceGenerator

• Override the method: public Serializable generate(...)

