JPA Entity Introduction

In general, entity is a group of states associated together in a single unit. On adding behaviour, an entity behaves as an object and becomes a major constituent of object-oriented paradigm. So, an entity is an application-defined object in Java Persistence Library.

Entity Properties

These are the properties of an entity that an object must have: -

- Persistability An object is called persistent if it is stored in the database and can be accessed anytime.
- Persistent Identity In Java, each entity is unique and represents as an object identity. Similarly, when the object identity is stored in a database then it is represented as persistence identity. This object identity is equivalent to primary key in database.
- Transactionality Entity can perform various operations such as create, delete, update. Each operation makes some changes in the database. It ensures that whatever changes made in the database either be succeed or failed atomically.
- Granuality Entities should not be primitives, primitive wrappers or built-in objects with single dimensional state.

Entity Metadata

Each entity is associated with some metadata that represents the information of it. Instead of database, this metadata is exist either inside or outside the class. This metadata can be in following forms: -

- **Annotation -** In Java, annotations are the form of tags that represents metadata. This metadata persist inside the class.
- XML In this form, metadata persist outside the class in XML file.

