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| **Feature** | **JPA** | **Hibernate** | **Spring Data JPA** |
| defination | As specification(set of rules) | A **framework/tool** implementing JPA | A **Spring project** built on top of JPA (uses Hibernate) |
| purpose | Defines how Java objects map to DB tables | Actually performs DB operations | Simplifies JPA usage by reducing boilerplate |
| Entity mapping | Uses @Entity, @Id, etc. | Same, but allows extra annotations | Same JPA annotations |
| standard | Part of Java EE | Follows J[A standars | It’s an abstraction layer provided by spring |
| Seesion management | no | no | Auto managed by spring |