| **Creating a Model** | **EF 6** | **EF Core** |
| --- | --- | --- |
| Basic class mapping | Yes | 1.0 |
| Constructors with parameters |  | 2.1 |
| Property value conversions |  | 2.1 |
| Mapped types with no keys (query types) |  | 2.1 |
| Conventions | Yes | 1.0 |
| Custom conventions | Yes | 1.0 (partial) |
| Data annotations | Yes | 1.0 |
| Fluent API | Yes | 1.0 |
| Inheritance: Table per hierarchy (TPH) | Yes | 1.0 |
| Inheritance: Table per type (TPT) | Yes |  |
| Inheritance: Table per concrete class (TPC) | Yes |  |
| Shadow state properties |  | 1.0 |
| Alternate keys |  | 1.0 |
| Many-to-many without join entity | Yes |  |
| Key generation: Database | Yes | 1.0 |
| Key generation: Client |  | 1.0 |
| Complex/owned types | Yes | 2.0 |
| Spatial data | Yes |  |
| Graphical visualization of model | Yes |  |
| Graphical model editor | Yes |  |
| Model format: Code | Yes | 1.0 |
| Model format: EDMX (XML) | Yes |  |
| Create model from database: Command line | Yes | 1.0 |
| Create model from database: VS wizard | Yes |  |
| Update model from database | Partial |  |
| Global query filters |  | 2.0 |
| Table splitting | Yes | 2.0 |
| Entity splitting | Yes |  |
| Database scalar function mapping | Poor | 2.0 |
| Field mapping |  | 1.1 |
|  |  |  |
| **Querying Data** | **EF6** | **EF Core** |
| LINQ queries | Yes | 1.0 (in-progress for complex queries) |
| Readable generated SQL | Poor | 1.0 |
| Mixed client/server evaluation |  | 1.0 |
| GroupBy translation | Yes | 2.1 |
| Loading related data: Eager | Yes | 1.0 |
| Loading related data: Eager loading for derived types |  | 2.1 |
| Loading related data: Lazy | Yes | 2.1 |
| Loading related data: Explicit | Yes | 1.1 |
| Raw SQL queries: Entity types | Yes | 1.0 |
| Raw SQL queries: Non-entity types (e.g. query types) | Yes | 2.1 |
| Raw SQL queries: Composing with LINQ |  | 1.0 |
| Explicitly compiled queries | Poor | 2.0 |
| Text-based query language (e.g. Entity SQL) | 1.0 |  |
|  |  |  |
| **Saving Data** | **EF6** | **EF Core** |
| Change tracking: Snapshot | Yes | 1.0 |
| Change tracking: Notification | Yes | 1.0 |
| Change tracking: Proxies | Yes |  |
| Accessing tracked state | Yes | 1.0 |
| Optimistic concurrency | Yes | 1.0 |
| Transactions | Yes | 1.0 |
| Batching of statements |  | 1.0 |
| Stored procedure mapping | Yes |  |
| Disconnected graph low-level APIs | Poor | 1.0 |
| Disconnected graph End-to-end |  | 1.0 (partial) |
|  |  |  |
| **Other Features** | **EF6** | **EF Core** |
| Migrations | Yes | 1.0 |
| Database creation/deletion APIs | Yes | 1.0 |
| Seed data | Yes | 2.1 |
| Connection resiliency | Yes | 1.1 |
| Lifecycle hooks (events, interception) | Yes |  |
| Simple Logging (e.g. Database.Log) | Yes |  |
| DbContext pooling |  | 2.0 |
|  |  |  |
| **Database Providers** | **EF6** | **EF Core** |
| SQL Server | Yes | 1.0 |
| MySQL | Yes | 1.0 |
| PostgreSQL | Yes | 1.0 |
| Oracle | Yes | 1.0 (1) |
| SQLite | Yes | 1.0 |
| SQL Server Compact | Yes | 1.0 (2) |
| DB2 | Yes | 1.0 |
| Firebird | Yes | 2.0 |
| Jet (Microsoft Access) |  | 2.0 (2) |
| In-memory (for testing) |  | 1.0 |
|  |  |  |
| **Platforms** | **EF6** | **EF Core** |
| .NET Framework (Console, WinForms, WPF, ASP.NET) | Yes | 1.0 |
| .NET Core (Console, ASP.NET Core) |  | 1.0 |
| Mono & Xamarin |  | 1.0 (in-progress) |
| UWP |  | 1.0 (in-progress) |