The Chinook data model (below) represents a digital media store, including tables for artists, albums, media tracks, invoices and customers. Chinook data model is an ER Model.

**Deliverables:**

**Convert ER Model to Dimensional Model**

1. **List fact(s) & dimensions**

* Facts: FactInvoice
* Dimensions: Dim\_Album, Dim\_Customer, Dim\_Date, Dim\_Employee, Dim\_Geography, Dim\_Playlist, Dim\_Track

1. **What tables will be combined?**

* Playlist with PlaylistTrack
* Artist with Dim\_Album
* MediaType & Genre with Dim\_Track

1. **Create date/calendar dimension**

**![Graphical user interface, application

Description automatically generated]()**

1. **Create tables with surrogate SKs, NKs & FKs**

* **Dim\_Album**

|  |  |
| --- | --- |
| AlbumId\_SK | PK, SK |
| AlbumId\_SK | SK |

* **Dim\_Employee**

|  |  |
| --- | --- |
| EmployeeId\_SK | PK |
| ReportsTo | FK |
| GeographyId\_SK | FK |

* **Dim\_Customer**

|  |  |
| --- | --- |
| CustomerId\_SK | PK, SK |
| GeographyId\_SK | FK |

* **Dim\_Geography**

|  |  |
| --- | --- |
| GeographyId\_SK | PK, SK |

* **Dim\_TrACk**

|  |  |
| --- | --- |
| TrackId\_SK | PK, SK |
| PlaylistId\_SK | PK, FK |
| AlbumId\_SK | FK |
| ArtistId | FK |

* **Dim\_Date**

|  |  |
| --- | --- |
| DateKey | PK |

* **Dim\_Playlist**

|  |  |
| --- | --- |
| PlaylistId\_SK | PK, SK |

1. **Create Geography Table**

**![Graphical user interface, text, application

Description automatically generated]()**

1. **Determine table attributes**

* **Dim\_Album**

|  |  |
| --- | --- |
| AlbumId\_SK | PK, SK |
| Artist\_Id |  |
| AlbumTitle |  |
| ArtistName |  |
| AlbumId\_SK |  |

* **Dim\_Employee**

|  |  |
| --- | --- |
| EmployeeId\_SK | PK |
| ReportsTo | FK |
| BirthDate |  |
| HireDate |  |
| Fax |  |
| FirstName |  |
| LastName |  |
| Phone |  |
| Email |  |
| GeographyId\_SK | FK |

* **Dim\_Customer**

|  |  |
| --- | --- |
| CustomerId\_SK | PK, SK |
| Company |  |
| Fax |  |
| FirstName |  |
| LastName |  |
| Phone |  |
| Email |  |
| GeographyId\_SK | FK |

* **Dim\_Geography**

|  |  |
| --- | --- |
| GeographyId\_SK | PK, SK |
| Country |  |
| State |  |
| City |  |
| PostalCOde |  |

* **Dim\_TrACk**

|  |  |
| --- | --- |
| TrackId\_SK | PK, SK |
| PlaylistId\_SK | PK, FK |
| MediaName |  |
| GenreName |  |
| MediaTypeId |  |
| GenreId |  |
| Bytes |  |
| TarckName |  |
| Composer |  |
| Millisecond |  |
| AlbumId\_SK | FK |
| ArtistId | FK |

* **Dim\_Date**

|  |  |
| --- | --- |
| DateKey | PK |
| Year |  |
| Quarter |  |
| Month |  |
| Date |  |
| Day |  |

* **Dim\_Playlist**

|  |  |
| --- | --- |
| PlaylistId\_SK | PK, SK |
| PlaylistName |  |

**Create data model in ER/Studio & upload data models**

Logical Model

![Diagram

Description automatically generated]()

Physical Models

![Diagram

Description automatically generated]()

**Create DDL & create tables in following databases & upload DDL for each database**

**PostgreSQL**

**![Graphical user interface, text, application, email

Description automatically generated]()**

**MySQL**

**![Graphical user interface, text, application

Description automatically generated]()**

**Microsoft SQL**

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