

Music Store Database Report

Executive Summary

This report provides an overview of the music store database, highlighting key tables and their relationships. The database stores information about artists, albums, tracks, customers, sales, and employees. Understanding the structure of this database is crucial for effective data analysis and business decision-making.

Key Metrics

- Number of Tables: **11**
- Key Tables: Artist, Album, Track, Customer, Invoice

Visualizations

```
erDiagram
    Album {
        int AlbumId PK
        string Title
        int ArtistId FK
    }
    Artist {
        int ArtistId PK
        string Name
    }
    Track {
        int TrackId PK
        string Name
        int AlbumId FK
        int MediaTypeId FK
        int GenreId FK
        string Composer
        int Milliseconds
        int Bytes
        numeric UnitPrice
    }
    Genre {
        int GenreId PK
        string Name
    }
    MediaType {
        int MediaTypeId PK
        string Name
    }
    InvoiceLine {
        int InvoiceLineId PK
        int InvoiceId FK
        int TrackId FK
```

```

        numeric UnitPrice
        int Quantity
    }
Invoice {
    int InvoiceId PK
    int CustomerId FK
    datetime InvoiceDate
    string BillingAddress
    string BillingCity
    string BillingState
    string BillingCountry
    string BillingPostalCode
    numeric Total
}
Customer {
    int CustomerId PK
    string FirstName
    string LastName
    string Company
    string Address
    string City
    string State
    string Country
    string PostalCode
    string Phone
    string Fax
    string Email
    int SupportRepId FK
}
Employee {
    int EmployeeId PK
    string LastName
    string FirstName
    string Title
    int ReportsTo FK
    datetime BirthDate
    datetime HireDate
    string Address
    string City
    string State
    string Country
    string PostalCode
    string Phone
    string Fax
    string Email
}
Playlist {
    int PlaylistId PK
    string Name
}
PlaylistTrack {
    int PlaylistId FK
    int TrackId FK
}

```

}

```
Album ||--o{ Artist : Belongs to
Track }o--|| Album : Part of
Track }o--|| Genre : Is of type
Track }o--|| MediaType : Is of type
InvoiceLine }o--|| Invoice : Contains
InvoiceLine }o--|| Track : Refers to
Invoice }o--|| Customer : Belongs to
Customer }o--|| Employee : Supported by
Employee ||--o{ Employee : Reports to
PlaylistTrack }o--|| Playlist : Part of
PlaylistTrack }o--|| Track : Contains
```

Caption: Entity Relationship Diagram of the Music Store Database

Recommendations

- Further analysis should focus on identifying popular artists, genres, and tracks to optimize inventory and marketing strategies.
- Investigate customer purchasing patterns to personalize recommendations and improve customer satisfaction.
- Analyze sales data to identify trends and forecast future revenue.