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In project1, I worked on designing a simple website which provides the information on cinemas, actor’s (artist’s) details and contact-us information. Using this information, I have decided to create three tables that contain movie artist’s information, filmography of each artist and their contact details. Here are the following database tables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ArtistId** | **ArtistFname** | **ArtistLname** | **DOB** | **Profession** | **Language** |
| 1001 | Charles | Diegal | 09-11-1960 | Villain | English |
| 1002 | Chiranjeevi | Konidela | 08-22-1955 | Actor | Telugu |
| 1003 | Tom | Cruise | 10-03-1978 | Actor | English |
| 1004 | Jennifer | Lopez | 05-06-1979 | Actress | German |
| 1007 | Ridley | Scott | 04-05-1983 | Director | Russian |
| 1009 | Sunil | Raju | 11-12-1973 | Comedian | Telugu |

**Table 1: Movie Artists Database (table Name - MvArtist)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Lname** | **No of Movies** | **Hits** | **Flops** | **Awards** |
| Diegal | 12 | 10 | 2 | 3 |
| Lopez | 20 | 15 | 5 | 1 |
| Konidela | 13 | 12 | 1 | 2 |
| Scott | 8 | 5 | 3 | 5 |
| Raju | 10 | 8 | 2 | 4 |

**Table 2: Artists Filmography Database (Table Name - fgraphy)**

|  |  |  |
| --- | --- | --- |
| **ContactId** | **PhoneNo** | **Salary (in Millions per movie)** |
| 1001 | 743-747-8388 | 7.3 |
| 1002 | 848-394-3988 | 3.56 |
| 1007 | 888-433-2233 | 4 |
| 1009 | 223-554-3321 | 5.76 |
| 1004 | 934-224-2231 | 2.56 |

**Table 3: Contact-Information Database (Table Name - contactInfo)**

**Basic database queries using SQL:**

Generally, the fundamental query block is made of two clauses: SELECT and FROM. The SELECT clause gives the ability to select the columns where as FROM allows you to select the specific or multiple tables.

1. The basic query to select a ArtistsLname column from **MvArtist database table**

SELECT ArtistLname

FROM MvArtist;

**Output:**

ArtistLname

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Diegal

Konidela

Cruise

Lopez

Scott

Raju

We can also use a \* to specify all columns in MvArtists table

SELECT \*

FROM MvArtist;

Output:

ArtistId ArtistFname ArtistLname DOB Profession Language

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1001 Charles Diegal 09-11-1960 Villain English

1002 Chiranjeevi Konidela 08-22-1955 Actor Telugu

1003 Tom Cruise 10-03-1978 Actor English

1004 Jennifer Lopez 05-06-1979 Actress German

1007 Ridley Scott 04-05-1983 Director Russian

1009 Sunil Raju 11-12-1973 Comedian Telugu

1. The basic query using Arithmetic Operators and Column aliases. Lets write a query to find the annual salary of all artists form **contInfo table**

SELECT ArtistContactId “Artist Contact Id”

, Salary \* 12 “Annual Salary”

Output:

Contact Id Annual Salary

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1001 12500

1002 25000

. . . . . . . . .

1. The basic query to select the columns from more than one table using WHERE clause and table aliases.

SELECT ArtistLname, ArtistContactId,

FROM MvArtist m, contactInfo c

WHERE m.ArtistId = c.ContactId;

**Entity Relationship Diagram (ER diagram):**

An ERD is a conceptual presentation of distinct information by using traditional ways, which illustrates how these entities are related with other. In the ER diagram, the elements in rectangle represent entities; the elements in diamonds represent relationship and elements in eclipse represents attributes.

**Macintosh HD:Users:sgadde:Downloads:ERDiagram.png**

Fig.1 Entity Relationship Diagram