Sample Questions to Demonstrate Informatica PowerCenter Functions:

Text Functions:

- Convert all titles in the *Title* column to lowercase.

- Remove any leading spaces from *Director (1)* column values.

- Remove any trailing spaces from *CinemaScore* grades.

- Add leading zeros to the *Index* column to make it a 3-digit format (e.g., *001, 002*).

- Extract the first 4 characters (year) from the *Release Date (DD-MM-YYYY)* column.

- Replace the colon (*:*) in the *Title* column with a hyphen (-).

Numeric Functions:

- Ensure all numbers in the *IMDB Metascore (scored out of 100)* column are positive.

- Round down the *Budget (in million $)* values to the nearest whole number.

- Calculate the square root of *Worldwide Gross (in million $)* values.

- Convert *Domestic Gross (in million $)* to a decimal format and round to two decimal places.

- Convert *IMDb (scored out of 10)* to an integer.

- Convert *Rotten Tomatoes - Critics (scored out of 100%)* to a float type.

Date and Conversion Functions:

- Add 30 days to the *Release Date (DD-MM-YYYY)* column to simulate the "end of promotional period" date.

Source Table:

CREATE TABLE marvel_movies_database (movie_index NUMBER PRIMARY KEY, title VARCHAR2(255) NOT NULL, director_1 VARCHAR2(255), director_2 VARCHAR2(255), release_date DATE, imdb_score NUMBER(3,1), imdb_metascore NUMBER(3), rt_critics_score NUMBER(3), rt_audience_score NUMBER(3), letterboxd_score NUMBER(2,1), cinema_score CHAR(2), budget_million NUMBER(10,2), domestic_gross_million NUMBER(10,2), worldwide_gross_million NUMBER(10,2));

Target Table:

CREATE TABLE marvel_movies_target (

   index_number VARCHAR(10),

   title VARCHAR2(255),

   director_1 VARCHAR2(100),

   director_2 VARCHAR2(100),

   release_date DATE,

   end_promo_date DATE,

   year_of_release_date VARCHAR(20),

   imdb_score NUMBER(3,1),

   imdb_metascore NUMBER(3),

   rt_critics_score NUMBER(3),

   rt_audience_score NUMBER(3),

   letterboxd_score NUMBER(3,1),

   cinemascore VARCHAR2(2),

   budget_in_million INT,

   domestic_gross_in_million NUMBER(10,2),

   worldwide_gross_in_million NUMBER(10,2)

);

1. **LOWER & UPPER**:

2. **LTRIM & RTRIM**:

3. **LPAD**:

4. **SUBSTR**:

5. **REPLACECHR**:

6. **ABS**:

7. **FLOOR**:

8. **SQRT**:

9. **TO_DECIMAL**:

10. **TO_INTEGER**:

11. **TO_FLOAT**:

12. **ADD_TO_DATE**: