Consider the Movies schema from the handout, to solve the following exercises.

Q1: Write queries to find:

a) All British actors

b) All movies from the 1970s

Q2: Write queries to find:

a) The names of all directors of movies from the 1970s (between 1970 and 1979)

b) The names of all British actors

c) Find all movie names which are longer than 120 minutes.
Q3: a) Assume that Movies only has the first 3 rows (someone deleted the rest of the rows because they hated the movies). Also, assume that someone removed all but the first 3 roles in the Roles relation.
What is the schema and content of Movies X Roles?

b) From the resulted relation, which tuples don’t make sense?
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Consider the Movies schema from the handout, to solve the following exercises.

Q4: a) How many tuples are in Artists × Roles?

b) How many tuples are in Artists ⋈ Roles?

c) What is the result of:
\[ \pi_{\text{aName}} \sigma_{\text{director}="Kubrick"}(\text{Artists} \bowtie \text{Roles} \bowtie \text{Movies}) \]

d) What is the result of:
\[ \pi_{\text{aName}} (\sigma_{\text{director}="Kubrick"}(\text{Artists} \bowtie \text{Roles} \bowtie \text{Movies})) \]
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Q5: Write a query that gets all characters from movies from the 1970s?

Q6: Use Theta join to find artists who have also directed movies. Display artist name followed by movie title: