Movies Table

Title	World Gross	Local Gross	Genre	Date
A	25.6M	12.1M	Comedy	2005-01-12
B	41.2M	10.3M	Action	2009-03-09

User Query

"Show the gross trend of comedy and action movies by year."

STEP 1 Data Selection Reasoning

Data Column

Data Value

"gross"
SELECT
Local Gross
World Gross

"by year"
SELECT Date

"comedy and action"
SELECT Genre
WHERE Genre
IN [Comedy, Action]

STEP 2 Chart Type Reasoning

Chart Type — No

Task Analysis

"trend"
TASK trend

CHART
Bar
Line

STEP 3 Channel Mapping Reasoning

Y   X   Color

STEP 4 Data Transformation Reasoning

Aggregate   Binning

"by year"
BIN Date BY YEAR

AVG(Local Gross / World Gross)

AVG World Gross

AVG Local Gross

AVG World Gross

AVG Local Gross

Genre: ● Comedy ● Action

STEP 5 Visualization Synthesis Reasoning