



In [22]:

```
1 G = nx.from_pandas_edgelist(edges, *edges.columns)
2 print(G.edges(data = True))
```

```
[('israel', 'judah', {'weight': 100}), ('israel', 'david', {'weight': 73}), ('israel', 'moses', {'weight': 67}), ('israel', 'jerusalem', {'weight': 54}), ('israel', 'egyp', {'weight': 40}), ('israel', 'jeroboam', {'weight': 33}), ('israel', 'saul', {'weight': 31}), ('israel', 'aaron', {'weight': 31}), ('israel', 'philistines', {'weight': 26}), ('israel', 'sin', {'weight': 26}), ('israel', 'joshua', {'weight': 25}), ('israel', 'olomon', {'weight': 22}), ('israel', 'samaria', {'weight': 21}), ('israel', 'jordan', {'weight': 21}), ('israel', 'benjamin', {'weight': 21}), ('israel', 'jacob', {'weight': 19}), ('israel', 'moab', {'weight': 17}), ('israel', 'ammon', {'weight': 17}), ('israel', 'ephraim', {'weight': 17}), ('israel', 'pharaoh', {'weight': 16}), ('israel', 'eleazar', {'weight': 16}), ('israel', 'ahab', {'weight': 16}), ('israel', 'assyr', {'weight': 15}), ('israel', 'samuel', {'weight': 15}), ('israel', 'jehoshaphat', {'weight': 15}), ('israel', 'reuben', {'weight': 14}), ('israel', 'manasseh', {'weight': 14}), ('israel', 'joash', {'weight': 14}), ('israel', 'gilead', {'weight': 13}), ('israel', 'asa', {'weight': 12}), ('israel', 'amaziah', {'weight': 12}), ('israel', 'zion', {'weight': 12}), ('israel', 'dan', {'weight': 11}), ('israel', 'hebron', {'weight': 11}), ('israel', 'nebat', {'weight': 10}), ('israel', 'babylon', {'weight': 9}), ('israel', 'joab', {'weight': 9}), ('israel', 'rehoboam', {'weight': 9}), ('israel', 'baasha', {'weight': 9}), ('israel', 'hezekiah', {'weight': 8}), ('israel', 'beera', {'weight': 8}), ('israel', 'abraham', {'weight': 8}), ('israel', 'canaan', {'weight': 8}), ('israel', 'edom', {'weight': 8}), ('israel', 'jehu', {'weight': 7}), ('israel', 'jonathan', {'weight': 7}), ('israel', 'isaac', {'weight': 7}), ('israel', 'adam', {'weight': 7}), ('israel', 'gad', {'weight': 7}), ('israel', 'abner', {'weight': 7})]
```

## 2 Compute Adjacency Matrix