Complete List of Types of Questions Addressed

Example Image: (Grouped Horizontal Bar Graph)

Percentage of male workers employed in Service sector
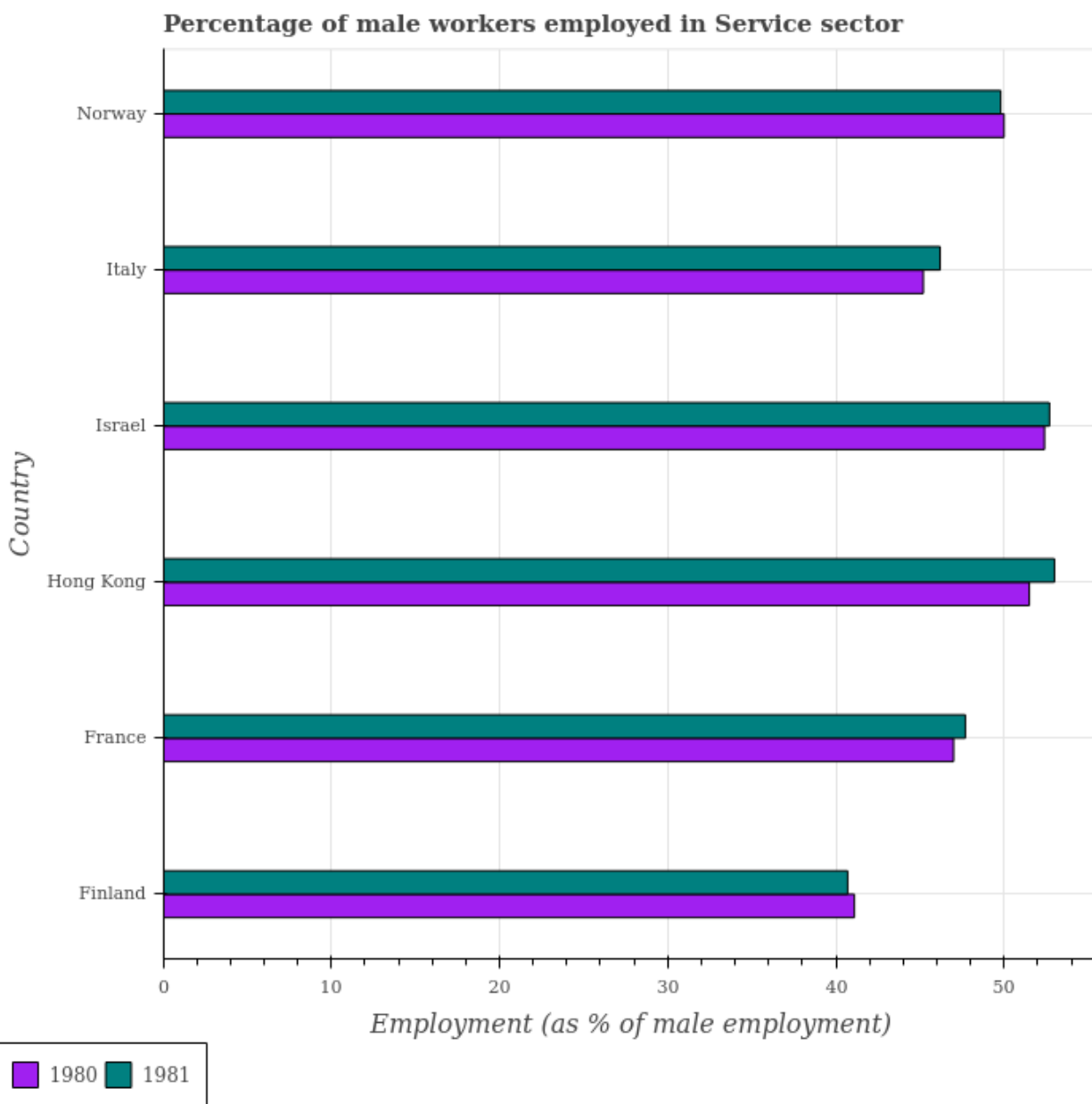
CSV Output:

	Country	1980	1981
0	Israel	54.191570	54.512780
1	France	48.970106	48.401403
2	Finland	41.569151	41.217884
3	Norway	51.488818	51.018932
4	Italy	46.373521	46.332053
5	Hong Kong	53.624025	54.126604

Types of questions addressed:

1. Count

   Q: what are the total number of countries
   A: 6

2. Sum

   Q: what is the total number of male workers employed in 1980
   A: 296.2171903097152

3. Average

   Q: what is the average number of male workers in the year 1980
   A: 49.36953171828586

   Q: what is the average number of male workers in the year 1981
   A: 49.26827598218275

4. Minimum

   Q: across all countries, what is the minimum percentage of male workers employed in service sector in 1980
   A: 41.56915064054187

5. Maximum

   Q: across all countries, what is the maximum percentage of male workers employed in service sector in 1980
   A: 54.191569798758344

6. Difference

Q: what is the difference between the average number of male workers employed for the year 1980 and 1981
A: DIFFERENCE = 0.10125573610311278

Q: what is the difference between the number of male worker employed for the country france in 1980 and 1981
A: DIFFERENCE = 0.5687026318456105

   - Keyword = "difference between"
   - The two entities must be separated by "and"

7. Median

Q: what is the median number of male workers employed in the year 1980
A: MEDIAN = 50.22946206732409

   - Keyword = "median"
   - Column name for which the median has to be found

8. Ratio

Q: what is the ratio of male workers employed in 1981 to 1980 for the country hong kong
A: RATIO = 1.0093722657385955

   - Keyword = "Ratio"
   - QUANTITY_1 "to" QUANTITY_2

9. Trend (Increasing or Decreasing)

Q: what is the trend of male workers employed for the countries finland, france, hong kong in 1980
A: TREND = INCREASING

Q: what is the trend of male workers employed for the countries israel, italy in 1980
A: TREND = DECREASING

Q: what is the trend of male workers employed for the countries israel, italy, norway in 1980
A: TREND = NONE

   - Keyword = "trend"
   - List of comma separated entries followed by "in" COL_NAME

10. Selection operation on cell
    Q: what is the number of male workers employed for country france in the year 1981
    A: 48.40140328049439

11. Select operation on cell after applying aggregation operation

Q: which country has the minimum number of male workers employed in the year 1981
A: Finland

12. Selection and Aggregation operation on subset of rows

Q: what is the sum of male workers employed for the countries france, finland in the year 1980
A: 90.53925655288188

Q: what is the average number of male workers employed for the countries france, finland in the year 1980
A: 45.26962827644094

Q: what is the maximum number of male workers employed for the countries france, finland in the year 1980
A: 48.97010591234

13. Project operation on column

Q: what are the names all the countries
A: Finland, France, Hong Kong, Israel, Italy, Norway

Q: list out the countries
A: Finland, France, Hong Kong, Israel, Italy, Norway

14. Range

Q: what is the range of % of male employment for the year 1980
A: RANGE = 12.622419158216474

15. Quartiles (Q1 and Q3) and

Q: find the quartiles for the year 1980
A: FIRST QUARTILE (Q1) = 43.97133559037385
   SECOND QUARTILE (Q2) = 50.22946206732409
   THIRD QUARTILE (Q3) = 53.90779749715967

16. IQR

Q: find the interquartile range for the year 1980
A: INTER-QUARTILE RANGE = 9.936461906785823

17. Structural Query

Q: what is the title of the graph ?
A: TITLE OF THE GRAPH = Percentage of male workers employed in Service se

Q: what is the label or title of the x-axis ?
A: X-LABEL = Employment (03 % of male employment)

Q: what is the label or title of the y-axis ?
A: Y-LABEL = Country

18. YES / NO

Q: in the year 1981, hong kong has the highest employment percentage.
A: YES
Q: for the year 1980, italy has a lower employment percentage than norway.
A: YES
Q: the average employment rate of hong kong is greater than the average employment rate of finland.
A: YES
Q: is the percentage of male workers employed in service sector in 1980 in italy less than that in norway ?
A: YES