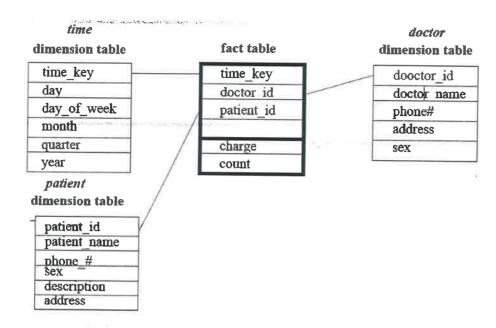
## Solution

Q2 a)i)



Q2 a) ii) The operations to be performed are:

- Roll-up on time from day to year.
- Slice for time=2004.
- Roll-up on patient from individual patient to all.

Q2a)iii) fee(day; month; year; doctor; hospital; patient; count; charge): select doctor, SUM (charge)

from fee where year=2004 group by doctor

Q2 b) The equation of the least squares line is estimated by y = 23.6 + 3.5xTherefore, the salary of a college graduate with 10 years of experience is \$58,600.

Q3 a) Mean: 58 so the mean salary is \$58,000

Median:54 so the median is \$54,000

Mode: The data areQ2 a) bimodal so the two modes are \$52,000 and \$70,000.

The midrange of the data is \$70,000.

Quartile: first quartile  $Q_1$  is \$47,000 and third quartile  $Q_3$  is \$63,000.

Q4 b) minimum support count =2

Frequent item set is {1, 3, 5} and {2, 3, 5}

Strong association rules are: 1^5 →3

1^3→5

3^5 →1

**1**→ 3^5

5v2←3 5v2←3 3v2←5 5v3←2