**ASSIGNMENT-3**

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**PART-1:**

**§ Question 1.1:** About how much in revenue does Fanatic do (from the video)? What problem were they looking trying to use AWS to solve?

**Answer:** Fanatic do 1 billion revenue scalability & agility elasticity & cost automation & self service availability & disaster recovery

**§ Question 1.2:** What database technology was used to store transactional data and which BI tool did they connect to it?

**Answer**: Database technology used to store transactional data is sql rds They connect to BI tool microstrategy

**§ Question 1.3**: Would you characterize their solution as enabling operational, tactical or strategic decisions? Justify your answer with an example.

**Answer:** operational decision, They did not have any executives to monitor the services.

**§ Question 1.4:** How did Fanatics control costs while at the same time address and adapt to changing customer needs?

**Answer**: cost control using tools like cloud watch and tags. They invested in hardware which they sold as services to user and also always had resources in form of hardware for users

**§ Question 1.5**: Why were MicroStrategy security groups created for the real-time dashboard views (from the BI demo toward the end)?

**Answer**: Because business executives use the data.

**PART-2:**

**§ Question 2.1:** Build the payoff table for the above scenario. You can put the probabilities for each state of nature in parenthesis next to the state (e.g. $A (0.30)$).

**Answer**: units in millions

**§ Question 2.2** : Since the community planner needs to actually understand the probability of the economic state given the prediction (as a proxy for how accurate they actually were) use Bayes rule to compute the following:

**Answer:**

$Pr(A\big|{CBE}\_A)$=0.92

$Pr(B\big|{CBE}\_A)$=0.05

$Pr(C\big|{CBE}\_A)$=0.01

$Pr(A\big|{CBE}\_C)$=0.4

$Pr(B\big|{CBE}\_C)$=0

$Pr(C\big|{CBE}\_C)$=0.6

**§ Question 2.3** : Though in Q2.2 we didn't compute the probabilities for the flat economic scenario $B$, looking at the economy probabilities that you did compute ($A$ and $C$, economic growth and decline), would you decide to pay the firm to do a complete evaluation?

**Answer:** I dont pay the firm to do a complete evaluation because the probability at differnt economic states are not good.