Q(1) itemset X & tiltiz, -tin and X + \$ -: Sup(X) =n いカンて ... Sup(x) ZZ, x must be a frequent itemset Q1(2) X is a closed frequent itemset Assumption: Assume we can find a superset (Storx, where sup(5)=sup(x)=n

Proof. Let S exsists in TDBs = Stirtiz---tini Ket: X is the subset of S We also know X exsists in TDBs = \(\frac{t}{1}, \frac{t}{12}, \ldots \frac{t}{n}\), so TDBs = TDBx : S=X is in contradiction to our assumption that is Sis X's superset

. We can't find a superset S for X, where sup(S)=Sup(X)

. X is a colsed frequent itemset. and therefore S=X