COMP3005 A3

<u>Drew Suitor - 101003158</u>

Part 1 1.1 π NAME π AREACODE π OFFICECODE π STATIONCODE (σ (R1.portid = R2.portid)(SUBSCRIBERS x LINES)) 1.2 π NAME π ADRESS π PORTID (σ (R1.portid = R2.line AND SERVICE = 'CFB')(SUBSCRIBERS xSERVICE_SUBSCRIBERS) 1.3 π PORTID (σ (R1.portid = R2.portid AND count[R2.state:C]('IDLE') = 0)(TRUNKS x TRUNK CHANNEL)) 1.4 π CALL_ID (σ (R1.orig = R2.portid AND R1.term = R3.portid)(CALLS x TRUNKS x TRUNKS)) 1.5 π PORTID (σ (R1.portid = R2.orig AND R1.portid = R3.portid AND R3.tcode = 'BSY')(LINES x CALLS X TREATMENTS)) 1.6 π PORTID (σ (R1.portid = R2.portid AND count[R2.state:C]('IDLE') > 0)(TRUNKS x TRUNK_CHANNEL)) 1.7 π NAME π ADRESS (σ (max(count(R1.portid = R2.portid)))(SUBSCRIBERS x SERVICE_SUBSCRIBERS)) 1.8 π PORTID (σ (R1.portid = R2.portid AND count[R2.state:C]('IDLE') > 0)(TRUNKS x TRUNK_CHANNEL)) 1.9 π SERVICE π COUNT[R1.scode = R2.service :C](SERVICES x SERVICE SUBSCIRBERS) 1.10