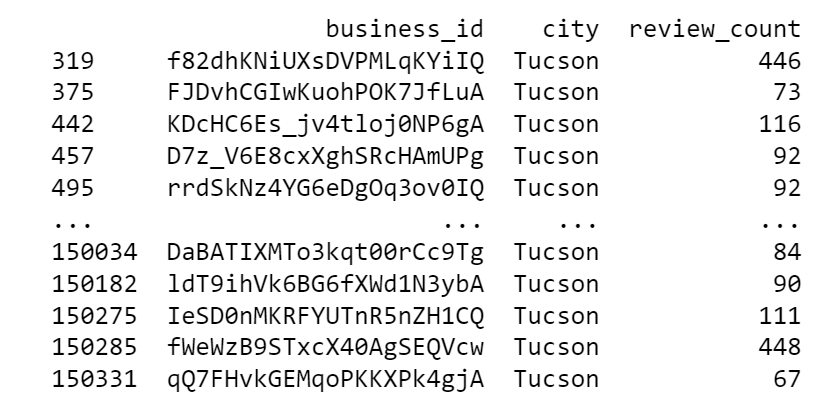
Graduate project report

# List of sample businesses for city Tucson, review\_count>= 65 and stars <=2:



# List of sample businesses with common reviewer.

Businesses f82dhKNiUXsDVPMLqKYiIQ and AKFahOtdDQA7NVXZyDajCA have common users: AXpwQ2orCGqlPEcuzgL8xA.

Businesses f82dhKNiUXsDVPMLqKYiIQ and UCMSWPqzXjd7QHq7v8PJjQ have common users: pV-zk27LoaY3sQiSr9kImg.

Businesses f82dhKNiUXsDVPMLqKYiIQ and v5T1Q21TT1\_S\_aY\_G8Mf-g have common users: AXpwQ2orCGqlPEcuzgL8xA.

Businesses f82dhKNiUXsDVPMLqKYiIQ and ERl6OCSEIFBOqfjai\_jIUg have common users: AXpwQ2orCGqlPEcuzgL8xA.

Businesses f82dhKNiUXsDVPMLqKYiIQ and cXAKeC-EgVChIxhS7fscmw have common users: dXmmyBCImZmzBwqZ6nh4hg, D1mT8i77Lvdp5dD-FD3gag.

Businesses f82dhKNiUXsDVPMLqKYiIQ and rViAhfKLKmwbhTKROM9m0w have common users: pV-zk27LoaY3sQiSr9kImg.

Businesses f82dhKNiUXsDVPMLqKYiIQ and vzvm7\_QXEDaMTxMOKLBNyQ have common users: feGJ1cAFAINQurlPBKertg, RH8JESsGvT8820VDArFyJA.

Businesses f82dhKNiUXsDVPMLqKYiIQ and otQS34\_MymijPTdNBoBdCw have common users: AXpwQ2orCGqlPEcuzgL8xA.

Businesses f82dhKNiUXsDVPMLqKYiIQ and bXjnfT69E8DJinX-ifOofA have common users: JF93Xhyx9AWKPk0aM4\_LGg.

Businesses f82dhKNiUXsDVPMLqKYiIQ and wa\_bwyY57etHjtJ2Fw0E3g have common users: Po4BCvGrKtP\_OfZwMUp87g.

Businesses f82dhKNiUXsDVPMLqKYiIQ and Wd9JBLjCCh5yTF0vPAxCAA have common users: uA\_igA8uYcy5b12O691iug.

Businesses f82dhKNiUXsDVPMLqKYiIQ and WLiqfxv\_GhFFA5sm878a2w have common users: Po4BCvGrKtP\_OfZwMUp87g.

Businesses f82dhKNiUXsDVPMLqKYiIQ and I0053JmJ5DEFUWSJ8pikhA have common users: pV-zk27LoaY3sQiSr9kImg.

Businesses f82dhKNiUXsDVPMLqKYiIQ and wJmyu7W1K9A\_gE8Ed4Bc9w have common users: RH8JESsGvT8820VDArFyJA.

Businesses f82dhKNiUXsDVPMLqKYiIQ and W7NxQw8UYFR0HLPrI08tvw have common users: AXpwQ2orCGqlPEcuzgL8xA, IBuXJ0wVwodgChJasYIXUw.

Businesses f82dhKNiUXsDVPMLqKYiIQ and avcOkMsnFse9D-DpIimYkA have common users: D1mT8i77Lvdp5dD-FD3gag.

Businesses f82dhKNiUXsDVPMLqKYiIQ and RhuYqAT45uIR2NNdDsolXQ have common users: pV-zk27LoaY3sQiSr9kImg.

Businesses f82dhKNiUXsDVPMLqKYiIQ and tP8wd-9CrI\_RkHK424oifQ have common users: lUC5misP\_X34iZ-qcQH5hQ.

Businesses f82dhKNiUXsDVPMLqKYiIQ and IT4giLaBtYHSA9nh5FmDwQ have common users: TNDUG1zBpjHbU4xKP06Ilg.

Businesses f82dhKNiUXsDVPMLqKYiIQ and wZqZRDkBf4IECiiALKV9PQ have common users: D1mT8i77Lvdp5dD-FD3gag.

Businesses f82dhKNiUXsDVPMLqKYiIQ and WSx9-iYYyST\_umny9sJBFg have common users: mfFgFfW8RfKFRaO9w6ImLA.

# Graph:

A blue and black network

Description automatically generated

# Degree centrality values:

Node: jwEHfhS7uLK4TJgGPfnWDw, Degree Centrality: 310.0

Node: kjDXbqCihUxgDvQn1n57hA, Degree Centrality: 145.0

Node: E2l9h35n-BpwWpV5RVye-w, Degree Centrality: 79.0

Node: HqPFoCfaL63O5S7AbcXckw, Degree Centrality: 69.0

Node: U1Ni64-U1o5ylGO\_pqNDMw, Degree Centrality: 10.000000000000002

Node: 3WGHOrb3MwoBJNJCkHwCdg, Degree Centrality: 1.0

Node: D6N2WHxTqrqdnwsomJSFRg, Degree Centrality: 72.0

Node: wYYsmF6begc6ZcnPGwF9NQ, Degree Centrality: 273.0

Node: VJ4Z1gN\_gWK2IFQ3Id8Z2w, Degree Centrality: 28.0

Node: F7my029Wph\_GAbtnjrjVLQ, Degree Centrality: 16.0

Node: j-SbAmlN\_OVerAJa8w13kg, Degree Centrality: 56.0

Node: i4hmtFsITuDYuks3Uv7EnA, Degree Centrality: 30.000000000000004

Node: eIk4\_wRFDQGH7UOYF6maJA, Degree Centrality: 221.00000000000003

Node: 7EXwY2JuIRcG88Dun2bSkA, Degree Centrality: 73.0

Node: Gfo-SPfCALtwYmaa4USi6Q, Degree Centrality: 86.0

Node: \_9Z3cuZQBOGv\_XzSG4ewHA, Degree Centrality: 239.0

Node: 1ipr4W2ApXdAyOmRE4AIkQ, Degree Centrality: 72.0

Node: Akmo0AQ5qhbqYlZ2OZnrQA, Degree Centrality: 19.0

Node: J-iale4ilYuAXjnfLyYl1Q, Degree Centrality: 128.0

Node: dCYJQLStBDwa2gN2XO44Ag, Degree Centrality: 180.0

Node: F9jfjlNRuFk4WrMPdsr7CA, Degree Centrality: 104.0

Node: xReVzv7-wMuWLEX\_8XXtcQ, Degree Centrality: 52.0

Node: cUz09fpK2NcPfWf8UPF17g, Degree Centrality: 94.0

Node: KbSpEQ\_54ovgNxOoxKP79g, Degree Centrality: 164.0

Node: y3qnicZgcv9gMseetyzbFQ, Degree Centrality: 154.0

Node: VmcuFXUrXInZat40t-IbDg, Degree Centrality: 60.00000000000001

Node: lC0\_e8F1zAstzhj-O3eQZg, Degree Centrality: 100.00000000000001

Node: Jbl4f8gdoz4cRDo\_3pK0Cg, Degree Centrality: 114.0

Node: BO4xRRLb2hblJWRI5MNAPw, Degree Centrality: 75.0

Node: IxrP8U\_bm-egr7USCZKYew, Degree Centrality: 3.0

Node: lncA5hFwOC9Wv2UXmPbJwg, Degree Centrality: 79.0

Node: qvlcna5bw8Y2C3s1LaFoXw, Degree Centrality: 79.0

Node: kfkhc8PaFdbk8aQ9suZIfw, Degree Centrality: 20.000000000000004

Node: 6z3n9bxWvYWDEcrvuahjtA, Degree Centrality: 110.0

Node: ZK7aU8GBJwXhVcyCGeL1iQ, Degree Centrality: 93.0

Node: WLXceElT2l87hvOS4nHGwg, Degree Centrality: 43.0

Node: t3mM7pSpQKg7hOy0PeuKtA, Degree Centrality: 67.0

Node: P35nwRGaG1FMn-l8xPEY2Q, Degree Centrality: 180.0

Node: PvClAHXbI\_DzGA5mmmUqAg, Degree Centrality: 49.00000000000001

Node: pUeuBWxgll2in2KqKeAR\_A, Degree Centrality: 232.0

Node: ajgvBDXmFllajSfKDIHTGw, Degree Centrality: 51.00000000000001

Node: zXvjFr3lftIlkuFNlY4PRw, Degree Centrality: 72.0

Node: eb4QwETR0zK4De-ar8XO6Q, Degree Centrality: 101.00000000000001

Node: gXQp2-KFOLkFr5JoDa3\_9A, Degree Centrality: 15.000000000000002

Node: elP0Xn9HyP6cRBuzbJdTpw, Degree Centrality: 11.0

Node: JVdRFZ0fZmd36f-s3FtS5A, Degree Centrality: 177.00000000000003

Node: isrmmF6K\_OZC2maNStwYNQ, Degree Centrality: 80.00000000000001

Node: RuLg9NNbKT13hlxqKCf9VA, Degree Centrality: 125.00000000000001

Node: hzkeaiW4tG0H\_nHG31JuVA, Degree Centrality: 1.0

Node: 8da9PKeUV44KoUUlYNTVOA, Degree Centrality: 81.00000000000001

Node: wLybne33jvVt6rs9ji8bww, Degree Centrality: 104.0

Node: MfkMUNwur9huBERrx0k5lg, Degree Centrality: 96.0

Node: fQT4od5LLhDbdeTg7OzZJg, Degree Centrality: 61.00000000000001

Node: eGi7CE2YaN6YMiGyXNi8XQ, Degree Centrality: 3.0

Node: tkyHFPJ3dBsjE2hA\_tk\_sQ, Degree Centrality: 61.00000000000001

Node: uSIGgRScZmpWlEcHtoaWlA, Degree Centrality: 430.00000000000006

Node: Q22UzlwqkRkISP7LG4WXzA, Degree Centrality: 171.00000000000003

Node: fjLJhvR3aGd812OsMcziCQ, Degree Centrality: 56.0

Node: ZYxGiEyHD17kd80zUzaOQA, Degree Centrality: 168.0

Node: 4r6N\_Fhiwoqo\_FqQ7Mm6mQ, Degree Centrality: 287.0

Node: IIC\_gGdLTSCbRMtKzg1-ZQ, Degree Centrality: 110.0

Node: zHKm\_ewctAxLokrGQpZewA, Degree Centrality: 20.000000000000004

Node: h\_n6WExuyzPM5l8qOsrLOg, Degree Centrality: 117.0

Node: w9WLlcY\_mziJ6qAB6WtpsA, Degree Centrality: 28.0

Node: KBpwkWRLL4oV5Ss2JTXmzA, Degree Centrality: 87.0

Node: AUBQPQ8wftMBbP2Q3Lbn0w, Degree Centrality: 347.00000000000006

Node: aYHjJJ64whQsxZjx5rUe\_w, Degree Centrality: 405.0

Node: QYMYtbOAfauqobOvC04gMA, Degree Centrality: 46.0

Node: 9haFlHQRUwpYzdktVq60EQ, Degree Centrality: 122.00000000000001

Node: -iGzevsRYAi990-Lt-iMoQ, Degree Centrality: 77.0

Node: bB6UQeEPMubjAxmy9ESBYg, Degree Centrality: 20.000000000000004

Node: CjJaDHMfIHqaIKvBVABAJQ, Degree Centrality: 110.0

Node: zJpBMqVuAzcBhHZSe0-18w, Degree Centrality: 227.00000000000003

Node: KyxAss4DMrT\_GMzcOLE2yg, Degree Centrality: 36.0

Node: K\_8YsBq1YpWswAuPO7BLVg, Degree Centrality: 1.0

Node: wF3EdgYbUm6ARXDCzbpUEA, Degree Centrality: 240.00000000000003

Node: LElUci-oferIH1c19\_PdHA, Degree Centrality: 12.0

Node: ml3B7AlRh8D4UNehrvuBNA, Degree Centrality: 86.0

Node: E2V119PbWj8qB\_ma-AQBhg, Degree Centrality: 20.000000000000004

Node: 9-uy3rDagO1Ewp\_HnauXLw, Degree Centrality: 45.0

Node: aOkMeTvFzjQCQVZfnXOm-w, Degree Centrality: 136.0

Node: KAQT1EGptJDTVMTslyBdwQ, Degree Centrality: 142.0

Node: xNd\_x23g7wiGAjmm5HXfPA, Degree Centrality: 179.00000000000003

Node: noojBmSFxFsYKPkPIBR6sA, Degree Centrality: 4.0

Node: q0L1bP7f5Nd6m1Eq8pD0GA, Degree Centrality: 204.00000000000003

Node: eTCDxZd5QUj2kBrBMbnbTQ, Degree Centrality: 161.00000000000003

Node: m6gILkoSovYr4yqFzTnROA, Degree Centrality: 113.0

Node: h0FfVGE8C-U8SDxQPgUjmw, Degree Centrality: 36.0

Node: 6zxPHDdLUNhCSLSeHlCVNg, Degree Centrality: 237.0

Node: N7TdIA1ASyihh-H24IxW1A, Degree Centrality: 47.0

Node: 96myvjjiQW8ZFp4LrE1gXQ, Degree Centrality: 82.0

Node: 5P4w4WfPbXzUi6YALfwx2g, Degree Centrality: 317.0

Node: 5s7I0Khg7ReVzfO7niJtKg, Degree Centrality: 124.00000000000001

Node: u2SO\_waqiX4tbfPEB47O8Q, Degree Centrality: 126.00000000000001

Node: f-7gzwLtoqis8StcrfzvPA, Degree Centrality: 349.0

Node: h\_d4fcmFsRFQYmvYaS2bzw, Degree Centrality: 78.0

Node: zL7wVx6Ihf1VEb9Wi7P0bw, Degree Centrality: 59.00000000000001

Node: 3BjBtmb\_DRCwSx39sC2NSw, Degree Centrality: 159.0

Node: QUFAPyqX-qmlLZ4Jm9nfDw, Degree Centrality: 148.0

Node: oe\_mNXHcqx\_NTKL6YCfw4A, Degree Centrality: 47.0

Node: zgb1ylb-Ic1sneuOrdEYSQ, Degree Centrality: 159.0

Node: JzWtjfJKfEp3zRsAhK1PFQ, Degree Centrality: 13.0

Node: TAUGnIQDR9-m23DWLZ0dow, Degree Centrality: 266.0

Node: gKpsoVjBEnrNkzaOfxpOUA, Degree Centrality: 67.0

Node: beV1\_vL3qFiQCX4pc7KBUw, Degree Centrality: 65.0

Node: KuVtxfIJu4qRscngMsVcxg, Degree Centrality: 216.0

Node: irbp3bTab2D2OL7p8D0huw, Degree Centrality: 31.000000000000004

Node: vOLX2XhdTX6LzzTKxC0CxA, Degree Centrality: 101.00000000000001

Node: Dhu2JeOO0NKIp1A50YkMkA, Degree Centrality: 59.00000000000001

Node: sYhHFlE1l9wWrWmhRjAlxw, Degree Centrality: 51.00000000000001

Node: lPbfldf06Ndb09CAXSPdWQ, Degree Centrality: 58.0

Node: KJibkIOx\_vZxq1ZHhtLTCg, Degree Centrality: 49.00000000000001

Node: 9fOkyQs0TcVqqe\_5c51b\_w, Degree Centrality: 133.0

Node: ObduC1ld-h8FIU0lEb5hlA, Degree Centrality: 62.00000000000001

Node: hu3UluXzpXN1mFaWM4Qpwg, Degree Centrality: 47.0

Node: gJctImPPLma\_aRICoi8ZKQ, Degree Centrality: 204.00000000000003

Node: CjkH56a6kMqGAaSdH2SukQ, Degree Centrality: 33.0

Node: x-8cXxNxXQS9VuVYTFFKSw, Degree Centrality: 10.000000000000002

Node: 7\_1GqlDlbkShY0az7J0XNg, Degree Centrality: 108.0

Node: oHGPTi\_BMJGOuAQqhOa0Qw, Degree Centrality: 163.0

Node: l298Q2w2R\_juyuQDaNvXsg, Degree Centrality: 199.0

Node: JHxfEDW05\_KSTfk-SLqXGw, Degree Centrality: 104.0

Node: Sw8uw0pmocFqzBhq0AP5Bw, Degree Centrality: 60.00000000000001

Node: 3cyjdxvskRcADylzLI32cQ, Degree Centrality: 61.00000000000001

Node: vOhHc9nR2S6ptKFV1OvtYg, Degree Centrality: 69.0

Node: eTrIVMySUFERsxo2ajRaWg, Degree Centrality: 62.00000000000001

Node: Z\_FtI-OLtbwznGqteCXGfQ, Degree Centrality: 95.0

Node: j0rlSVLbW1vCnMtfFsGmYQ, Degree Centrality: 92.0

Node: KVT4RFTRVjSS3zuZ1bmiAA, Degree Centrality: 55.0

Node: X4kLBCoQeS-x6zVH7fnOvw, Degree Centrality: 155.0

Node: c-oGZZ81FYvclXAYIs0mqg, Degree Centrality: 32.0

Node: 0OVhJp8cS3fWFLa35SESOQ, Degree Centrality: 126.00000000000001

Node: 8fCovWo4TJKpdOJ0KCZOIg, Degree Centrality: 97.00000000000001

Node: \_qON-b7ttvKYXyRDKN9nmA, Degree Centrality: 2.0

Node: OgilsqqoshPEsPYdx7GIzg, Degree Centrality: 78.0

Node: fdmLML9X\_0mWWG3TFVWniQ, Degree Centrality: 145.0

Node: WJht65g8f3mE13eazyoP\_g, Degree Centrality: 248.00000000000003

Node: VPNmH6mGKL9jZUT\_10hBew, Degree Centrality: 9.0

Node: 8Mzu\_wczdzv9dU\_Gr6OR8A, Degree Centrality: 84.0

Node: rNY5xg0FZSBopfmi-QZ\_NA, Degree Centrality: 55.0

Node: \_3SfdIE0ac8SXxMktIGVsQ, Degree Centrality: 61.00000000000001

Node: rrboiibHEX-2miWnheS5PA, Degree Centrality: 215.00000000000003

Node: WAInJdS3M-4JgUyzf\_LoQg, Degree Centrality: 179.00000000000003

Node: ijGETT4ubirzm2Sqt62CyA, Degree Centrality: 40.00000000000001

Node: 62B-29mSnrzTKRC1XPxFIw, Degree Centrality: 214.0

Node: Dun6k9Y5j76e9ODgkmHKlQ, Degree Centrality: 40.00000000000001

Node: vRtw\_YYSwxszxonseZhWCQ, Degree Centrality: 240.00000000000003

Node: PeLF6SmS6LrIztSnjiZdwg, Degree Centrality: 125.00000000000001

Node: MDNXo\_6wMUkbv2\_W3GOW7A, Degree Centrality: 286.0

Node: -lHpvtlMkRu0oRIXJkystA, Degree Centrality: 78.0

Node: z67ktHxCJ3-Ebs3zooegSg, Degree Centrality: 269.0

Node: 94W90PLwpoFYqtuU-qBEGA, Degree Centrality: 51.00000000000001

Node: ma9zcqAdxJpMdeg5-UGNLw, Degree Centrality: 67.0

Node: IsdiMfUyO82J1QWd9FmkXQ, Degree Centrality: 179.00000000000003

Node: eR44gUajtqCnVECnjh7Ynw, Degree Centrality: 55.0

Node: s1p9pg69MZA7vRiFCewQlQ, Degree Centrality: 32.0

Node: d\_4xDlOYQJYqV2V-2iyGOA, Degree Centrality: 36.0

Node: ZddEwyX5NHCcp\_u7XRodBg, Degree Centrality: 82.0

Node: \_uDhUdcNBtgiOXPGPWunoQ, Degree Centrality: 69.0

Node: RuM9hDl\_E9FN5IkkJ7HPQQ, Degree Centrality: 98.00000000000001

Node: HZ5GfNC3-a8ROMYqmbpFxg, Degree Centrality: 30.000000000000004

Node: g9p601DS\_0uq-aiEA7ypxQ, Degree Centrality: 25.000000000000004

Node: 37HBpNmT60ZTdnNeweWdzg, Degree Centrality: 45.0

Node: muxda1cSVtplETqTfYVgZA, Degree Centrality: 385.00000000000006

Node: Is31v0Wgj2ciUzkJyVO-og, Degree Centrality: 115.0

Node: JCNd5pF0GvSARbppJlrscA, Degree Centrality: 29.0

Node: Rv8bW3pkzpi5dZu5ckbgtA, Degree Centrality: 397.0

Node: T4E23iml3us2oH\_OVGBr4Q, Degree Centrality: 115.0

Node: JykoUULAfF60rAp3gjlvVw, Degree Centrality: 84.0

Node: 4jkH3istYst8zxLxb-QVmg, Degree Centrality: 331.0

Node: 14QP5lOdrTAVVCDDuHIAUg, Degree Centrality: 294.0

Node: nQUjknMFnm1Egjan6GEw6Q, Degree Centrality: 141.0

Node: 5yjHCLzwHgjKNNHgAaUC8Q, Degree Centrality: 149.0

Node: 6u9Jhu3yE3iQ\_5IlWEAfWw, Degree Centrality: 133.0

Node: 5nOTwLs2lCpsFwZzHA6Hvg, Degree Centrality: 113.0

Node: IdVYkCOjBhwli2LtS8rXIw, Degree Centrality: 114.0

Node: BTblqXsOHMXjcgcYkdzuqg, Degree Centrality: 137.0

Node: rhGC3v3G1C0\_pGv8ObA9AA, Degree Centrality: 38.0

Node: ewaaXBGXMGluuTGXOnTkRg, Degree Centrality: 130.0

Node: 5Z\_KrsEQsPE0ibKwhYn3ZQ, Degree Centrality: 50.00000000000001

Node: wPqBi698qqmn6a-ySKduaA, Degree Centrality: 124.00000000000001

Node: VqBFrv6StMLgZmO\_nCtk4A, Degree Centrality: 30.000000000000004

Node: \_5aMfyqG0ei\_dLkUqfSWBQ, Degree Centrality: 191.0

Node: I32gAKYbnzS4GRnV9C4o2g, Degree Centrality: 44.0

Node: PQKY258MwEF9MkL9eVJB1A, Degree Centrality: 6.0

Node: VkAhWzmhMTCQDMoedhI8Vg, Degree Centrality: 274.0

Node: pBl1CSeYKbWMSrqgglIMDw, Degree Centrality: 173.00000000000003

Node: kxsXFTtfIPWRRt4-ydfzKg, Degree Centrality: 47.0

Node: J35bT076GgP9OcmtlMnLEA, Degree Centrality: 64.0

Node: vfF68C7odKuf1yd1HLX1wQ, Degree Centrality: 208.0

Node: MM2k7pm2noLwKFflOhO46Q, Degree Centrality: 212.0

Node: entUQVUKfv521CiqEWYWlA, Degree Centrality: 176.0

Node: JvcLVPXUj8fOJ9yuLf8HjA, Degree Centrality: 104.0

Node: r6Unwg-mxv\_3JrEjQ24\_TQ, Degree Centrality: 89.0

Node: o3woQWQ-0HxFftItIEeNdw, Degree Centrality: 8.0

Node: \_2Ge9Kkch69Xi9A0TvucIg, Degree Centrality: 48.0

Node: NDL8FkN3ZPEGBM3sqRUV4Q, Degree Centrality: 171.00000000000003

Node: 9hVDlAouG9J1ORXOlBi44g, Degree Centrality: 37.0

Node: RFIHFxmNH9dM0ouz2N8ZjQ, Degree Centrality: 85.0

Node: rtykgAe3cXao\_PuzgT8mPA, Degree Centrality: 218.0

Node: TW--ofc3fcj2LM1Y-UK5rQ, Degree Centrality: 28.0

Node: N7BfYghq\_lGzWtq0kE8IXw, Degree Centrality: 116.0

Node: AKtLOAuqcb2GWXuiRW5Www, Degree Centrality: 52.0

Node: lGE\_dfU58hoOrNxPIwH3xg, Degree Centrality: 105.0

Node: XfTvMEWlfF4NrS3r1lvHxQ, Degree Centrality: 123.00000000000001

Node: RHj1RITdSwuXTc-lfJPO-w, Degree Centrality: 203.0

Node: wu2nJ5lW0tCU3VYa80i8Uw, Degree Centrality: 134.0

Node: no8Sj8Eflgka2LFdrYFG\_Q, Degree Centrality: 175.00000000000003

Node: 9\_SjXYZbO2FH3H2hg\_bYGw, Degree Centrality: 25.000000000000004

Node: OrLqnphSlRQlTscTilVIag, Degree Centrality: 66.0

Node: ob7l3DNNBnFOUmfCtlqsrQ, Degree Centrality: 118.00000000000001

Node: QdPiEDjZ2N2mOXSCrWHAbw, Degree Centrality: 108.0

Node: 8RGqaro54LVUOZpiTefWZQ, Degree Centrality: 141.0

Node: omeX3sbIEnyijtFRPBauXg, Degree Centrality: 82.0

Node: jaQWH\_VQSXbjEDePWWJgOg, Degree Centrality: 85.0

Node: Qh-vuXF2kEVvj1ReRP\_ztA, Degree Centrality: 252.00000000000003

Node: uGxOBvg1lsLuTG1Cn2w0vw, Degree Centrality: 107.0

Node: y683rpk0CbteZKKhVCNwDA, Degree Centrality: 17.0

Node: 2tSWTVynoI7Sc\_BhGHsO9Q, Degree Centrality: 143.0

Node: P4sF9Ded3KsfNmQPdDPAUA, Degree Centrality: 64.0

Node: dPc04D8Wsq9XP5pjfWuJww, Degree Centrality: 180.0

Node: 8NBb4aIeQvDh3OWRiIXYIA, Degree Centrality: 132.0

Node: qMpAph0MX2nrjCMdEgRTxw, Degree Centrality: 90.0

Node: dK10D96iGeHuTQzR8aG90Q, Degree Centrality: 111.0

Node: ab8i075-Tjju3WvcsXTp0g, Degree Centrality: 134.0

Node: RRcpqq6D4WS4jZ3HK8tckQ, Degree Centrality: 95.0

Node: tlmxMUrk9xRvYzH0xo1Olg, Degree Centrality: 118.00000000000001

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Node: 44klPO-2HedNmQc-LMg5jQ, Degree Centrality: 117.0

Node: ZxymmM8SI80x0VxpW8h9ZQ, Degree Centrality: 87.0

Node: RHptMcauayc1niSyoQWMoQ, Degree Centrality: 33.0

Node: jEAqMCGw3ocephZJFsl-qw, Degree Centrality: 98.00000000000001

Node: TqCKiDAs6r4GSo41QHlCHw, Degree Centrality: 108.0

Node: jpLJ79SPYXMpbvZ0py3uiw, Degree Centrality: 62.00000000000001

Node: YdZS3QkpjgHU2zIJ\_bqy\_A, Degree Centrality: 261.0

Node: EYoA7Zwg92rDj6pMAQQLTA, Degree Centrality: 143.0

Node: Zc9vEAWzsQ8G-tn7w28Paw, Degree Centrality: 217.00000000000003

Node: 9xMDYRurELJTav7-yq8M7g, Degree Centrality: 7.0

Node: N6TjYe5RCt9p5hlHjKfBSw, Degree Centrality: 16.0

Node: SCPXVj5VXRvXWU6r8tDLRg, Degree Centrality: 56.0

Node: aFUTUmXyguH9oHRGDOicog, Degree Centrality: 44.0

Node: h2-mPUMYJ5pF\_gVurDL3lw, Degree Centrality: 349.0

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Node: rGOJdLRl1KwCz\_9hxeDR4A, Degree Centrality: 214.0

Node: IFKdsa-gGCrgt1DmL5ggew, Degree Centrality: 178.0

Node: o\_VpAc7u6cQEtML-dD4USQ, Degree Centrality: 76.0

Node: XlIuTI1NRLzLlp11x-PTHA, Degree Centrality: 216.0

Node: UWxy45lXS\_iZeptEaRnmYA, Degree Centrality: 45.0

Node: LQgCCHnqNOurEEjrqns2YA, Degree Centrality: 21.0

Node: nmSdISHWPLHy4IEckRRmhw, Degree Centrality: 54.0

Node: PKJAdcPV2MA-\_chPVNmhYg, Degree Centrality: 135.0

Node: 4-PWLvDweauT1927XUOW5Q, Degree Centrality: 137.0

Node: hPxeshyaUwDYOz-V7tWDQA, Degree Centrality: 185.0

Node: E7lTjEtHGix4Qiqaqx4uIg, Degree Centrality: 9.0

Node: dang7RXO1I4ttXShtfUpqA, Degree Centrality: 4.0

Node: 86Mpp2Xlzasg-ntc2fNw7Q, Degree Centrality: 17.0

Node: MKZGpp7p4p3VARBVADHsug, Degree Centrality: 100.00000000000001

Node: zfDVCjgecRoMi-g\_3lI65A, Degree Centrality: 67.0

Node: sc42acOJtN2\_4bSth9o0Ow, Degree Centrality: 10.000000000000002

Node: zlfydjffYAIEj6vsh8tVvQ, Degree Centrality: 102.00000000000001

Node: ssk6Q7dOtOBP-8ovssi1jw, Degree Centrality: 111.0

Node: 25N0ldGa2TBiU2OTYifbKg, Degree Centrality: 12.0

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Node: Cgz2g5CeyBZ7Ko\_7gFROVA, Degree Centrality: 39.0

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Node: PSpXwP98W7ofZWYwkJSLCA, Degree Centrality: 72.0

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Node: njNxIjW06NxED\_1DWrJwKQ, Degree Centrality: 150.0

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Node: UvDud4vaI7l\_JlBV3E1mHg, Degree Centrality: 108.0

Node: 4xzxoQSL\_pTHUfpTQ9XIQg, Degree Centrality: 83.0

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Node: oibnXxBAR9HdvEOH-QK9aA, Degree Centrality: 258.0

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Node: u2goV4f32\_bqUBOiW5uD7Q, Degree Centrality: 82.0

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Node: 7xJKAPgtTFPTYknqtqo-8w, Degree Centrality: 36.0

Node: WQ0Hn0QaJZpygRyr3ALWSg, Degree Centrality: 234.0

Node: QZo-0Hfe3NTsUOkFPaUgwQ, Degree Centrality: 39.0

Node: OxBZqeYH5xuusEPp9ml7-g, Degree Centrality: 167.0

Node: yjcIKn2T2QY\_DjXWACsAFw, Degree Centrality: 437.0

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Node: mLjIVDt9o2Zaohx0VYVfPA, Degree Centrality: 286.0

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Node: 3Yr-zJORfOhHakvRY7Neag, Degree Centrality: 81.00000000000001

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Node: nC-z2sw5O9AXdaz-3lV8yA, Degree Centrality: 98.00000000000001

Node: COZbEsySsjS1d3mJ6cXeTA, Degree Centrality: 121.00000000000001

Node: GC75ZzoLxsfeKyk7vA3pXA, Degree Centrality: 66.0

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Node: 5PLTCfyndcWM44-yQH-YRg, Degree Centrality: 170.0

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Node: ePTpnoMhgB71H4uqsNLd-g, Degree Centrality: 63.00000000000001

Node: BtI1DC4SV1PxfPKNs2utnw, Degree Centrality: 13.0

Node: X-EC0xDfkIcitk1Ql5hlHQ, Degree Centrality: 1.0

Node: VY1Gxa5ctQyYW6JElOOLJA, Degree Centrality: 93.0

Node: AL89lQXFfE0HpbTvpxuSkA, Degree Centrality: 11.0

Node: ERCxS9DgJ51r3-YAXbchMA, Degree Centrality: 14.0

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Node: 8JJSe4zRLqmJUnjPzUvCEA, Degree Centrality: 32.0

Node: HdiWY4WV6laZflpfcLyo8A, Degree Centrality: 53.0

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Node: NHUKQ8XbbVt4Nhy7oUeGpA, Degree Centrality: 38.0

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Node: 4QMIJJWQOh7zpEwOXhFJqw, Degree Centrality: 142.0

Node: cT5BTXa0RdtGw3Vazs843A, Degree Centrality: 117.0

Node: 4wqoHIhvcH8KagsYOXH\_hQ, Degree Centrality: 125.00000000000001

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Node: nmkch1Q89DdFRXF1a-OgIg, Degree Centrality: 139.00000000000003

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Node: JMJl5yYYKHorr0g97QeZ5g, Degree Centrality: 39.0

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Node: xOrYm\_QU2As1LTYhgsglmw, Degree Centrality: 143.0

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Node: nyQbp8DPZjIKOwV12s2G1g, Degree Centrality: 114.0

Node: fnCkoMLHCNTjdfbobyD7zw, Degree Centrality: 157.0

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Node: HUhlFVMjZOgj1-N0JmCo-g, Degree Centrality: 393.0

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Node: 2PmIhlF\_5BHcRsVZsCtM0w, Degree Centrality: 141.0

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Node: ARzkPI1fpPT2Kk0vbcMlow, Degree Centrality: 76.0

Node: WKDKpjjZ94CrvEiZH4-6xw, Degree Centrality: 40.00000000000001

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Node: paf9A2QkCjTCV-e\_TT44Mg, Degree Centrality: 139.00000000000003

Node: j1LGyDLjesniwqc1rHpctA, Degree Centrality: 85.0

Node: won2tiBYPv63nfSyPt8DAA, Degree Centrality: 21.0

Node: CfhUq\_tF9j6N4d34y0SU\_A, Degree Centrality: 82.0

Node: 5U6M5mdJ4CMUefBpsIrcSw, Degree Centrality: 212.0

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Node: iLtnmQ7H\_Sj-rOEgcpWHxQ, Degree Centrality: 73.0

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Node: yVB7Usr55NnaUKs7K6xDTQ, Degree Centrality: 133.0

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Node: KmQjg\_cR8HSF6MzX-vsTAQ, Degree Centrality: 129.0

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Node: zh0uAkKDQhcxcNox9k7WmA, Degree Centrality: 106.0

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Node: FWaU544E0DNj3mkjlKif\_Q, Degree Centrality: 259.0

Node: 8lfRMOaf-DKRCHWsP6Y8PA, Degree Centrality: 25.000000000000004

Node: wXJzCxrEEsWBj0TOV7Nzvw, Degree Centrality: 1.0

Node: sn0lYpS47kOlFBBVi4KqNw, Degree Centrality: 72.0

Node: 2PvPsZ3KRFCtHbQkNHvGpg, Degree Centrality: 52.0

Node: 57Vny0AxGdEQBETfd7xU4A, Degree Centrality: 103.00000000000001

Node: qHyXH1bvVu9wF6ai9XUj9A, Degree Centrality: 99.00000000000001

Node: 4nkbXXzgUn-tViXzuoKR1Q, Degree Centrality: 64.0

Node: 9-hinODYdb3naN7t1sLPAA, Degree Centrality: 60.00000000000001

Node: yRs15dgEYvxGatbDyeVXiA, Degree Centrality: 96.0

Node: kXvVlxBOaEBTUSMiRec9xA, Degree Centrality: 62.00000000000001

Node: RGTX7OL9zgfvZCwWd\_vZwQ, Degree Centrality: 97.00000000000001

Node: 3wbb2oISVPhGDw1RZZHHgQ, Degree Centrality: 80.00000000000001

Node: QpAVPiH1Yujksd\_ReL-x-g, Degree Centrality: 99.00000000000001

Node: 2njTjQ35skXN171KoobeGg, Degree Centrality: 167.0

Node: dtWFuvupLrMmPb09uy6wVw, Degree Centrality: 134.0

Node: ZNOc9LErlBDtJF3Y7LQtwA, Degree Centrality: 149.0

Node: OSfJufsdaYaLsBZu\_HKzXA, Degree Centrality: 46.0

Node: DlOZoZZRLEOuh9FdAw1few, Degree Centrality: 106.0

Node: PtehC6OlP6py7ZktCi4Yug, Degree Centrality: 74.0

Node: EeKupsD4PgWEjni1A\_Ge2w, Degree Centrality: 17.0

Node: kEVptUKa\_OUPn\_50sTmoTQ, Degree Centrality: 27.0

Node: 2OiQ4aaCX0MfWe1cvn6S5Q, Degree Centrality: 21.0

Node: Vk4AsKa0Eg0QIO5cL0GFkg, Degree Centrality: 201.0

Node: chG1cEdToLhbcyVhrkBw0Q, Degree Centrality: 22.0

Node: Oby2Phs5qCX4O3VVp37gpA, Degree Centrality: 57.0

Node: EO0ZCmJv2ldtmI2E0DF59w, Degree Centrality: 51.00000000000001

Node: A0-S0UG8P00\_T5RavArH3g, Degree Centrality: 13.0

Node: sOjbtBWo-m6rpjHv4tA\_oQ, Degree Centrality: 27.0

Node: DaBATIXMTo3kqt00rCc9Tg, Degree Centrality: 72.0

Node: ldT9ihVk6BG6fXWd1N3ybA, Degree Centrality: 74.0

Node: IeSD0nMKRFYUTnR5nZH1CQ, Degree Centrality: 66.0

Node: fWeWzB9STxcX40AgSEQVcw, Degree Centrality: 89.0

Node: qQ7FHvkGEMqoPKKXPk4gjA, Degree Centrality: 16.0

Average degree centrality :110.26754385964912

​

# List of sample businesses for city Tampa, review\_count>= 65 and stars <=2:

business\_id city review\_count

224 Ucl9Vo5lwrUmYbV8Dv8X5g Tampa 108

275 dJfkfBbJz7wi0RgW-ph\_Eg Tampa 140

537 dIpTuL2T1L98GQGU17IeSw Tampa 548

759 71U7MxQEhwitJOm4CQpRwQ Tampa 325

1000 rBE5TT\_ndOOczNBrbRnJwA Tampa 325

... ... ... ...

149147 8E2--KcyOrJx8my51jid2w Tampa 217

149780 RmZ9CORyRONwfJYGrPPpbA Tampa 152

150121 CwrmXi2n\_W6Jb-y\_ySA0cQ Tampa 87

150138 ny1N\_Py01kVoGOvL9oKjMQ Tampa 578

150201 xGcpC8D4Sio-bN9KCr054g Tampa 119

# List of sample businesses with common reviewer:

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and p9tB3Fiszn1HMLUE-97K4g have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and lN\_9tSK-zUZyCAkVykKfoA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and GMjmrbksSxabPHYmhjsOEw have common users: TAsRhelKZgzW7RdlFQ0hHA.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and mLNSOU8Ki0Fm09xd6ZKkcA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and lK1upWouk\_UiwJK4HpZYzw have common users: A7jo33YW7iIlK7jpZ3p7NA.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and KhBUg5QhBYuK8RZAe5gDMQ have common users: gGY0XQoNkOwRYfPeCiMWWQ.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 2kuhZOrWcLYe\_XePccr4lA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 1817ULc2--fRD1eWnFLg3A have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and fJq59e\_kG1qVkiYD-NQzZw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and oToFygrpTn3OUpFkPFMxfA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 4vLJd8N3wy\_Q\_wu\_DZuRag have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and vZ1CQyKpPBK5\_jn9aujtCg have common users: TAsRhelKZgzW7RdlFQ0hHA.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 9iDHCh\_a3q9KStftkzHlZA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and Zv6mbtBXAitZrwO-zTgRyw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and ySn36gFeTJ0fR8CG-Q2DuA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and -WjTNKDYRyagBFCpHmkqVA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and BEMSDLPP630Fpdw\_QpqLVA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and YuhQIv\_c08zqfExfSiWB6g have common users: VcXDsw9MXTsgEwPHMDxgrw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and zPgHBj\_CG9KSL5pMUSog7g have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and Tn\_OK04DzbDQij9ZpMlT9Q have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and fux8aN2h-uvuDUKCQMhCLw have common users: VL12EhEdT4OWqGq0nIqkzw, TAsRhelKZgzW7RdlFQ0hHA, VcXDsw9MXTsgEwPHMDxgrw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 2uTM\_dpF3iTV7-5zyk1\_9w have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and bpGhMp9tuiGQCeQKNXlWEw have common users: A7jo33YW7iIlK7jpZ3p7NA.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 4MJE\_Su0\_gQ1Z9giIYyPqg have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and SBDsWNjuMFTpUDgebenNDw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and Oo2QSeBVkx8HJQm8SIL1Fg have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and bZ2mNCf64JlX-\_U5eDOcQg have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and XDlOFRDWQGVjzlvUs1X5Iw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and Mzmt8AvZOExG\_4h3MMlihg have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and Awkrb1wzFxz5w1Ixc9W3FA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and EyX2DuuTgqQUeqrpREOLAA have common users: UpRU19GZ2eOMoYIUmM9dww.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and tfBfrVrZwX6OlB\_oZqkwkg have common users: VcXDsw9MXTsgEwPHMDxgrw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and dTTjz9bl5QiTMtSvig23dA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and NrKVh-Y8Sfu9-He9988DBQ have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and NKn2x0CsWnWSfjBfmvq0fw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and EfYHJN8e-VRIfWyML19gSg have common users: UpRU19GZ2eOMoYIUmM9dww.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and DxXFnkSEiC9f3FwbE\_nLRw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and ewGp1BjKyVlD032yMd-lgQ have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and F\_\_yT5i7C2t-IfzyXYscKw have common users: TAsRhelKZgzW7RdlFQ0hHA.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and x-u3I8BseQF5hyOpd\_tTSw have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and pCqAtxJDMv7ha57hOkB11w have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and TzqkyPTnK7dtHxnvgyn\_4Q have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and GMezqeTkp3\_nOfcDiEKQeg have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and \_fH6BS3s\_K40b8PGWC4QwA have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 5YLYDvCXsHiQW4VHOFMEfg have common users: TAsRhelKZgzW7RdlFQ0hHA.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and 4Z1JcQtw8dUO97sezLPo7g have common users: VL12EhEdT4OWqGq0nIqkzw.

Businesses Ucl9Vo5lwrUmYbV8Dv8X5g and n5i09tgSuzv9ZeIN9Qe5oQ have common users: VL12EhEdT4OWqGq0nIqkzw.

# Graph:

A blue and black network

Description automatically generated

# Degree centrality values and graph:

Degree Centrality:

Node: Ucl9Vo5lwrUmYbV8Dv8X5g, Degree Centrality: 79.0

Node: dJfkfBbJz7wi0RgW-ph\_Eg, Degree Centrality: 118.0

Node: dIpTuL2T1L98GQGU17IeSw, Degree Centrality: 135.0

Node: 71U7MxQEhwitJOm4CQpRwQ, Degree Centrality: 88.0

Node: rBE5TT\_ndOOczNBrbRnJwA, Degree Centrality: 37.0

Node: oRZzKWdyMQld6N\_y4UWkAg, Degree Centrality: 87.0

Node: \_HcAoG6Jj\_XTj4-XNEbo6Q, Degree Centrality: 96.99999999999999

Node: mZlz6wq17Vl0wEokdpPdWg, Degree Centrality: 6.999999999999999

Node: QNxXsVPYcecUuhGRG-88OQ, Degree Centrality: 31.0

Node: p9tB3Fiszn1HMLUE-97K4g, Degree Centrality: 68.0

Node: v8IbZ6wcvdyGqWpbDKDvfA, Degree Centrality: 55.00000000000001

Node: VZfc50XVwgdCecH4YbGNFg, Degree Centrality: 174.0

Node: WQ832PDnsDshhbQFm83ISg, Degree Centrality: 248.0

Node: TTsBa6e2qgIEkiFQfYLmYA, Degree Centrality: 22.0

Node: I1h0GRYp86eX-XqwVXsSGA, Degree Centrality: 54.00000000000001

Node: lN\_9tSK-zUZyCAkVykKfoA, Degree Centrality: 157.0

Node: p21PCK17H3WL56KSr4Ykig, Degree Centrality: 17.0

Node: 3n\_G-\_DwOJ2VS4uGxBN6sg, Degree Centrality: 1.0

Node: mKZEuPNLVe4yRL0UfxFPTg, Degree Centrality: 23.0

Node: AODksDNj5mH953cyhUG1Qw, Degree Centrality: 104.0

Node: o6jfwLREaGy1mwAEybjOkg, Degree Centrality: 10.0

Node: tH10ZuH28GrccqTZ6TTl7A, Degree Centrality: 20.0

Node: Xsvi9wYhD7u5XrK2EKDd8w, Degree Centrality: 6.999999999999999

Node: OIES\_WhdNux3PmvSuPM-8Q, Degree Centrality: 10.0

Node: w0lcP2ngFaUpBGi5yzlYDw, Degree Centrality: 51.0

Node: UGebrYgNZrMzbGbcI01JWA, Degree Centrality: 17.0

Node: EjFp57Nd4bVgb5GNn-XnuA, Degree Centrality: 63.0

Node: Envz99GhwMkfMg7LzDQeUQ, Degree Centrality: 45.0

Node: GMjmrbksSxabPHYmhjsOEw, Degree Centrality: 56.99999999999999

Node: C1QkJ4s\_p3hMTrvOgM7ssA, Degree Centrality: 67.0

Node: WO5nr-4sjVs506BdCLL0aA, Degree Centrality: 105.0

Node: fYnvhdWXgWit8DhDLPrSTQ, Degree Centrality: 13.0

Node: oqP1oQEycpp4J6u5YebRoQ, Degree Centrality: 264.0

Node: 6511Aa7CVUZtABw4FsS\_Jg, Degree Centrality: 6.999999999999999

Node: encfXG\_jrG1M6gX1IqrHrw, Degree Centrality: 200.0

Node: YVCkBdxbgQlPM-yU\_Y7Cug, Degree Centrality: 73.0

Node: y3iKFTk\_sgIXCT6fNcBn\_Q, Degree Centrality: 83.0

Node: 2lQrzb0WPexs7oPdAPpQFw, Degree Centrality: 2.0

Node: txasGoZ1qB5toVaFiTbpmQ, Degree Centrality: 15.0

Node: 3OGzmGqWwsyGLkhnxrA9Pw, Degree Centrality: 101.0

Node: CGVpuQ3FpPWyYFQJQlsjLQ, Degree Centrality: 70.0

Node: xkTjLbBC7uB-rAIDqAm-sw, Degree Centrality: 21.0

Node: mLNSOU8Ki0Fm09xd6ZKkcA, Degree Centrality: 236.0

Node: 07i5EdI8v2FBhVV-rya8Wg, Degree Centrality: 6.0

Node: hk1KO4rAxGDgwlNSAO54yA, Degree Centrality: 30.0

Node: knA3b\_WnHUJAyrIzzL9Lrg, Degree Centrality: 96.0

Node: Q5odYgHa-ApKOPVrEFmRQA, Degree Centrality: 40.0

Node: cg4JFJcCxRTTMmcg9O9KtA, Degree Centrality: 284.0

Node: -7GjicSH\_rM8JeZGCXGcUg, Degree Centrality: 36.0

Node: IgCwdvf8RTNUkcUhylBGBg, Degree Centrality: 22.0

Node: xGUAa3xa8KsmbolC3XboQg, Degree Centrality: 52.0

Node: ugSj0rWlWQ57-FuKuieGXA, Degree Centrality: 48.0

Node: e9J0IWHyYGU-AcCqTQ7lSA, Degree Centrality: 58.0

Node: BVndHaLihEYbr76Z0CMEGw, Degree Centrality: 56.99999999999999

Node: LkskzKzo\_S8YmG1dGn4hag, Degree Centrality: 51.0

Node: B2wSy1zQCdZgDXOkhAKGDQ, Degree Centrality: 32.0

Node: \_5ElpvIsMeeZrCxhb19MzQ, Degree Centrality: 30.0

Node: qf4LecJDQWIt0gt6VJWFPw, Degree Centrality: 27.999999999999996

Node: Yh\_KhyVD6ZBwsIQQ1wSUpw, Degree Centrality: 98.0

Node: SySSMQNIfXN4KZyMtEukEw, Degree Centrality: 30.0

Node: Jx2AoB\_IQOUrZ3s6fdAUSA, Degree Centrality: 4.0

Node: -lhHSR1Aws4CyYC1XOPVTw, Degree Centrality: 55.99999999999999

Node: 5xokROlB8Zo5T-\_qbHzsrQ, Degree Centrality: 181.0

Node: P0yKtQ4cFjNTY1X2CIdzBw, Degree Centrality: 11.0

Node: qa1fGa9u0\_awl-A8CinLRg, Degree Centrality: 72.0

Node: \_VB4EIoGdAR4sBB6rApEAg, Degree Centrality: 81.0

Node: 3hlI68hS0pKFY6\_rK5UU\_g, Degree Centrality: 76.0

Node: ySXKjndttZjNy3kcqRqG3g, Degree Centrality: 136.0

Node: 7tN8hIXdQlfc7Lf5OOyjeg, Degree Centrality: 103.0

Node: Swjkmg5qAHT6hwXQRWQoHQ, Degree Centrality: 163.0

Node: dTvffuPtnhOSwSNuKP7BxA, Degree Centrality: 16.0

Node: lH3tplAcbNrNL0nJoyXCNA, Degree Centrality: 16.0

Node: WWnRdTjwaTnsLSJX95j-Zw, Degree Centrality: 171.0

Node: \_KSRzh-ZxwKB3YcRlZQsGA, Degree Centrality: 86.0

Node: sjueAFshWHWkKn5a1AymuQ, Degree Centrality: 40.0

Node: 3SNNs-aAO1P6\_LX7-lzr9g, Degree Centrality: 74.0

Node: qppGA9vCUPfw9ngOy\_R90w, Degree Centrality: 139.0

Node: Mha77MN\_BYGB-w7DONZ5YA, Degree Centrality: 32.0

Node: R4eAWOt6Kz\_rmo8B9FyG8g, Degree Centrality: 125.00000000000001

Node: FJlYldo1NcoyKMG2YKWywA, Degree Centrality: 64.0

Node: 4LtDvcwOauXA1tIwGU5uyw, Degree Centrality: 2.0

Node: BjBDHqHhMXSxgyVipccznQ, Degree Centrality: 145.0

Node: ovLgaPIMrx7PDZPrEpTMvg, Degree Centrality: 46.0

Node: lK1upWouk\_UiwJK4HpZYzw, Degree Centrality: 129.0

Node: lZEYIL95hZsZS0vgaoR2aQ, Degree Centrality: 46.0

Node: MqrfqmuSgNyFAUSZ-YOToA, Degree Centrality: 3.0

Node: t-NiYLOxwDJc7jSDKix4bA, Degree Centrality: 85.0

Node: gT69S0R0gpmxwjCLznwT4A, Degree Centrality: 24.0

Node: 85HTEU6hNsdK4gv1A4Cfww, Degree Centrality: 37.0

Node: rkem6aEo3vAG2VufybdwuA, Degree Centrality: 172.0

Node: 1IjHo5kaSdFxJkJotU4O7A, Degree Centrality: 154.0

Node: W78GCXLuneV5b6prO-X4aw, Degree Centrality: 107.0

Node: KACfu4N8b1RSnQgtjO7tiQ, Degree Centrality: 83.0

Node: KhBUg5QhBYuK8RZAe5gDMQ, Degree Centrality: 128.0

Node: ZmrebvKKDIOKNCQaNo\_8xg, Degree Centrality: 39.0

Node: k37i1EW\_x848o\_n1ATcErg, Degree Centrality: 43.0

Node: GdUbj1Y9ifnBrHZyMQKwQw, Degree Centrality: 21.0

Node: KP5OncF2jhT7\_J1phHPPww, Degree Centrality: 270.0

Node: whNtPvVGI4cCTWa\_Qv5Yiw, Degree Centrality: 64.0

Node: jcQ2ykQjVjSiVFf0EtH6eg, Degree Centrality: 31.0

Node: 2Ix7aG\_r0mmvO1HBnIL-IA, Degree Centrality: 13.0

Node: cx5rIVMN-FXwBkl2Kbot7w, Degree Centrality: 8.0

Node: O3iMLiyTA\_MVTnKXLZ-Fuw, Degree Centrality: 170.0

Node: Pm6qD9G\_xWLoV24YIN8gwQ, Degree Centrality: 11.0

Node: GApqfwJMxg4t2tk3K2PpMw, Degree Centrality: 5.0

Node: 0hIXH9jMdHov1VrLC8ujUg, Degree Centrality: 13.0

Node: 8jslfcsfU2BgthKAq0HynQ, Degree Centrality: 6.999999999999999

Node: 7pTSUbvuKYowZfN0bGSy8w, Degree Centrality: 89.0

Node: V378VWx4D8BstWNRFwDULg, Degree Centrality: 50.0

Node: TXoxXn3IETBBJxZQMQK3rw, Degree Centrality: 55.99999999999999

Node: rQCTWNMzIZTfqWEAjxDpKQ, Degree Centrality: 171.0

Node: ixPTo6Hum7nNZ7A4VPhTXg, Degree Centrality: 208.0

Node: ZiQiMlvgk19GrEEkN9kyRA, Degree Centrality: 87.0

Node: Uc6PdjT\_MO5bRPQsUUEy5Q, Degree Centrality: 69.0

Node: lXCFcmhoRsyW-mnzzl6fkA, Degree Centrality: 12.0

Node: xT41eqUSsM\_MDE1Vjhq20A, Degree Centrality: 79.0

Node: 4DVN5Uun3i-nmTIIOBhHog, Degree Centrality: 137.0

Node: UaE5Wru0lD5kVIWbnQ8xMg, Degree Centrality: 10.0

Node: llYsxQ0IuKh0HXULlqu6fw, Degree Centrality: 19.0

Node: \_pbx96FZ3eHJw-V\_R4h-Vg, Degree Centrality: 1.0

Node: NH9LSB4Qz2v0fHTMz9sQ0w, Degree Centrality: 21.0

Node: hAmuto6UndVroyd\_DaD-TA, Degree Centrality: 144.0

Node: uaKXyCNVXWdfOOdbM88pMA, Degree Centrality: 20.0

Node: Yit7GvwzEYbIzkNhxeqC7w, Degree Centrality: 42.0

Node: LjgiE\_EbpBdIz4JyVUioTQ, Degree Centrality: 9.0

Node: QC5k1-cZ5v22ReHGDeavfg, Degree Centrality: 44.0

Node: t-bcEvAM8oE92tm9HBr7wQ, Degree Centrality: 64.0

Node: kGl2zBnLWTUBQLFkd0u\_FQ, Degree Centrality: 45.0

Node: l7b33ubze8Jqw7C4I1CAuA, Degree Centrality: 5.0

Node: UYxGgnJ4Z2lOehK23HSIlw, Degree Centrality: 159.0

Node: FSTmzo0beEVMRMSArcp4fg, Degree Centrality: 158.0

Node: 0hCrds3sgFAYzsZolg3jcg, Degree Centrality: 49.0

Node: 2VuOLrhe2Iu\_FRz1gEIqQA, Degree Centrality: 44.0

Node: 182K66D5Wxv\_bFm3LGMMZg, Degree Centrality: 27.999999999999996

Node: SwBhaxfQPbyhsi0QHUAN0A, Degree Centrality: 326.0

Node: CmjvsiafnWH60fuYz2LCmA, Degree Centrality: 2.0

Node: TpIhYxu\_bwkj0JbEmEPg5g, Degree Centrality: 13.999999999999998

Node: Sl8hH3uzlFoO29Ip5cIKeg, Degree Centrality: 80.0

Node: a2ITIJRAY4Eo-xTH0vN95A, Degree Centrality: 54.00000000000001

Node: yV4GUuaEHqkbi5IvluMqAw, Degree Centrality: 12.0

Node: mMPvgBgqON8pia\_4AgGTUw, Degree Centrality: 168.0

Node: d9vapPUlJCSSrltRRKO9ig, Degree Centrality: 138.0

Node: 5JiFbBsbUdb-caBZWRyMSw, Degree Centrality: 113.99999999999999

Node: X0yZMHwB1yUyzISAqRyYtQ, Degree Centrality: 4.0

Node: wHicEIN-xE-uZD\_JoyrzTQ, Degree Centrality: 4.0

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Node: oJRjeio1OBablDFr--\_\_Xg, Degree Centrality: 108.00000000000001

Node: 3yI-7C8JzbG-ZaSqAGHMAQ, Degree Centrality: 141.0

Node: QcVA0SY3xV1ZXd5WYO7BUQ, Degree Centrality: 95.00000000000001

Node: vyKKuYDTofiV1oJDN-g8Lw, Degree Centrality: 33.0

Node: 6vWKezveJpsWgjl5Cd3l-g, Degree Centrality: 154.0

Node: 2kuhZOrWcLYe\_XePccr4lA, Degree Centrality: 182.0

Node: IRaLSSGLusS0jyUeh9Invw, Degree Centrality: 48.0

Node: iSJlDpeYlhUYLGpkVwolMA, Degree Centrality: 19.0

Node: GyC36Pn0Q1-qHnqXys6yFg, Degree Centrality: 128.0

Node: pN85\_0Xr\_cYY-F-PW\_nzhw, Degree Centrality: 27.000000000000004

Node: M2ZrrqseHE5xssUrOL0Gtg, Degree Centrality: 75.0

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Node: uyQGW7kZKk90vEwGo8A7mA, Degree Centrality: 173.0

Node: ENFmfflwE7qo0jvTUxWjVw, Degree Centrality: 51.0

Node: ClD3hvS0EZXMPYV8onMJdA, Degree Centrality: 6.0

Node: HLasBlWiSj9TH14Qf8Y1kw, Degree Centrality: 69.0

Node: sTfVZ9xo36tU8R5DnaCGkg, Degree Centrality: 44.0

Node: Hz9t8Z8ftKRF2-jVCWLzsg, Degree Centrality: 2.0

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Node: AwmsqV6rXxBf8ycphKzQnA, Degree Centrality: 157.0

Node: mdMsb1OrUc8onJNr9Zk7hQ, Degree Centrality: 71.0

Node: kNe-WMFqoUbxhXpOs3-U4g, Degree Centrality: 18.0

Node: aQFQIlyHasaTz5DtjV57nQ, Degree Centrality: 163.0

Node: dv4yKRAKfvPGiMqpsSwH6Q, Degree Centrality: 204.0

Node: FEINwhHfUBkDBgMr\_S7OGw, Degree Centrality: 34.0

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Node: t7EhJThUl-MCOmst4NcTpg, Degree Centrality: 41.0

Node: 9MHse2q2M69nNJeIGtAoEg, Degree Centrality: 23.0

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Node: F1nK5KDqxFWMMLdaz\_djoQ, Degree Centrality: 11.0

Node: MqFYLVFTCPseygf593p2Uw, Degree Centrality: 5.0

Node: Bii6sQO2QNinBq9vdakNBg, Degree Centrality: 339.0

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Node: GxrXK0uEBQ7C7dhCtvpTpA, Degree Centrality: 52.0

Node: K\_p6iM7M7oVH09uQ\_RxKWA, Degree Centrality: 35.0

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Node: MoVb\_mFKTG2fkaH0-9hODQ, Degree Centrality: 9.0

Node: hNBHvMSy3SQeVHfGI4vHKQ, Degree Centrality: 205.0

Node: WB-eQAgw88fbr15eY761CA, Degree Centrality: 91.0

Node: jFgbX3aCOgtKba6FkxQymg, Degree Centrality: 16.0

Node: gi9v-HcUdAn0Hye6QiFfJQ, Degree Centrality: 18.0

Node: hTFw1VlDfP5CuvWT\_k324g, Degree Centrality: 25.0

Node: 1FYdMkv1bc-sKUrjalyKxQ, Degree Centrality: 10.0

Node: 8ZuIR-ucyRo3nNLato2gwA, Degree Centrality: 59.0

Node: 9JrZDH4Mq0BXQ2GYIJmo-g, Degree Centrality: 85.0

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Node: UiOi9XByHTu1o9C-rFTrOw, Degree Centrality: 64.0

Node: cLZbm5I70Hpf9P2DvotN3g, Degree Centrality: 61.0

Node: DfEYyoO1YPHEPy9h3BWGvQ, Degree Centrality: 120.0

Node: t67sRGdMWOkB1WA8Dn5DrA, Degree Centrality: 4.0

Node: Pud2rnFwby48KD1qSaAAXg, Degree Centrality: 24.0

Node: eSHOzoSapng1c7BN3CBn9A, Degree Centrality: 8.0

Node: EyX2DuuTgqQUeqrpREOLAA, Degree Centrality: 210.99999999999997

Node: SgQYWN\_U5nyKofiCewopMg, Degree Centrality: 101.0

Node: tfBfrVrZwX6OlB\_oZqkwkg, Degree Centrality: 87.0

Node: RVvOJikc1X-KfNgzb-oNag, Degree Centrality: 20.0

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Node: yUglD4bzupuMzGIvnQguNg, Degree Centrality: 50.0

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Node: fagtmWIZPmYLBvkCF-A-2g, Degree Centrality: 38.0

Node: lS6m6n1u7jh73i-ivIuUiw, Degree Centrality: 13.999999999999998

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Node: lr2vWpgyXSdI0IVtCUO4eQ, Degree Centrality: 55.99999999999999

Node: 9r\_prQEvUixrjuIB4v5qCQ, Degree Centrality: 70.0

Node: 4NXtEZ7buJYC7KLzuhZg3Q, Degree Centrality: 135.0

Node: TohHdYYTPhrYYXNfVLzQ-A, Degree Centrality: 203.00000000000003

Node: ZLhu-sAejh5yGd8aV9zcGQ, Degree Centrality: 117.0

Node: PkOJZTQ4dAEGngxC-Teg\_w, Degree Centrality: 111.0

Node: RpNWMXXPnNkt8kmvJcP5ig, Degree Centrality: 109.0

Node: -DXnU-mJlRAz6K-Kmj2sfA, Degree Centrality: 24.0

Node: P-TC0VSnUsct3NhYrj5xOA, Degree Centrality: 100.0

Node: aVVCrM3kBh8yPmDyJAUnaQ, Degree Centrality: 29.0

Node: 3kCdCzbfMbpTStmrUbpfUQ, Degree Centrality: 235.0

Node: TnYCceceDuPeMc\_MTHPZRQ, Degree Centrality: 37.0

Node: v12Zs3Oo2h0rPda9Yp7BFQ, Degree Centrality: 27.999999999999996

Node: SNxUXrSr-XkEkSQIdjmjhA, Degree Centrality: 200.0

Node: 1C9nk1-vA2EoBCeNb2M5HA, Degree Centrality: 23.0

Node: F40eTD3J14SUJpyog5G2Ug, Degree Centrality: 47.0

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Node: fPjfaTzP21JeJuvlqkG\_hg, Degree Centrality: 36.0

Node: nXJzfrrR0GAeCm1fUxTapQ, Degree Centrality: 88.0

Node: E1Ip-KoFvwRPjTslL2pDpg, Degree Centrality: 39.0

Node: cGWhF0eEogy0DKPwCU9TtA, Degree Centrality: 27.999999999999996

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Node: 8Rd23gLfXyUccor83a3yyA, Degree Centrality: 21.0

Node: pdh91rffpM9QptHSXjJFVQ, Degree Centrality: 6.0

Node: xHf48EtjkhJhOjFYtLsIsQ, Degree Centrality: 74.0

Node: 4Be3yvKlm40iu4nGcQbEuA, Degree Centrality: 6.0

Node: LtX0VinSVVba0dUAKg2dhw, Degree Centrality: 33.0

Node: O2fD4u\_LbXMa4lW\_kk9yyg, Degree Centrality: 17.0

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Node: 117cztVQvB0ujB7u\_wsnqw, Degree Centrality: 111.0

Node: 03dIEDBsDERr6Osmey-udQ, Degree Centrality: 151.0

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Node: Tac9ES3xcFw-l0bChzQb4A, Degree Centrality: 85.0

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Node: ZQ60m8H2E2L7\_mBku52qkQ, Degree Centrality: 11.0

Node: EVmCBFlY0Hy\_62bDRizmGA, Degree Centrality: 161.0

Node: JGzk-iSXcVt-nV3def2k0A, Degree Centrality: 29.0

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Node: f7eLuUSH3Puh3Z9oo77t5w, Degree Centrality: 78.0

Node: ByI39q0M01X66dfKhw2MIg, Degree Centrality: 150.0

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Node: FTnY5qY1ftgODV0gGYbI6w, Degree Centrality: 104.0

Node: 86WULpuoWWKAn07eQYenUA, Degree Centrality: 37.0

Node: Hi2ADMI1\_BEahkXRP4lcjg, Degree Centrality: 250.00000000000003

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Node: aDubxij7hk7abn9i7QDlng, Degree Centrality: 59.0

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Node: QZNgG4zxTPiLUoVjJLEcrg, Degree Centrality: 116.0

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Node: g-O-YjEYenfh3Rl6DyQBKg, Degree Centrality: 1.0

Node: uz5iexrLN3LjGQGcKMSTuw, Degree Centrality: 39.0

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Node: 7gmgEoLpKdC2nawiBOtGjA, Degree Centrality: 159.0

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Node: zILVkn\_Gm9xASg63jWKMHw, Degree Centrality: 6.0

Node: xYDO35xImuSEGO5fKk6UtA, Degree Centrality: 108.00000000000001

Node: vgcU9ZnHeUEdW4Qu1-2U0Q, Degree Centrality: 12.0

Node: 3HPeWFUzyoyM17a4\_HOHIg, Degree Centrality: 98.99999999999999

Node: ntAX\_1tnOIPTyDNB3yfyww, Degree Centrality: 69.0

Node: 6\_QyUZW5QNsLlYJXjgmfAg, Degree Centrality: 150.0

Node: WhcPjw9vy8Ug0KjWEVRWcQ, Degree Centrality: 42.0

Node: zdHYuDA541CB205\_EiRDLg, Degree Centrality: 31.0

Node: NM3jP-98xUThy9Ji\_lBDdw, Degree Centrality: 280.0

Node: r\_mSoVE4Foil8iZNmo8ZyQ, Degree Centrality: 21.0

Node: n2aY\_LObgko-ko4grWzLyg, Degree Centrality: 9.0

Node: fn4pu\_IPQypHvSug75Z4IA, Degree Centrality: 98.99999999999999

Node: mt2fNZpZAd-PU99aK6wf9A, Degree Centrality: 75.0

Node: o3mCQJcBBMDWzTY-FuUh9w, Degree Centrality: 18.0

Node: v5bcIA0ropWPVIW90UmJOA, Degree Centrality: 21.0

Node: qGtPd-sk178XvrN38D3kzQ, Degree Centrality: 141.0

Node: p7-OaCLAzVKL-dIH3Xz\_rA, Degree Centrality: 27.999999999999996

Node: BZyxr4ocl1hJvFvhlogz0Q, Degree Centrality: 25.0

Node: g8o6cJNRwMIFzEvnm-d01w, Degree Centrality: 15.0

Node: K\_JuuazFvgiXkTFg61DfdA, Degree Centrality: 113.99999999999999

Node: E\_Yzg6j5fEBQ0ay-ZwzHKg, Degree Centrality: 161.0

Node: e4A1XPyEEMcfXxzDQhMrDQ, Degree Centrality: 48.0

Node: 1ZrFaxSqR1VLwa7O7IXgag, Degree Centrality: 144.0

Node: 2TK1p6uIO7dHDWOQeit0Fg, Degree Centrality: 94.0

Node: XQ6mIXhO9YjMKys2r-J5dQ, Degree Centrality: 56.99999999999999

Node: UnBs9SfFGQ7TpE\_3uYIqfg, Degree Centrality: 280.0

Node: 853e87Xm0Hm4rarGc6dsWA, Degree Centrality: 142.0

Node: fF0aVsxyI51ZfCZoN-F5GQ, Degree Centrality: 140.0

Node: RUYTbsN4Vw93o9w3Ziw4ow, Degree Centrality: 2.0

Node: Bwp0W1b-kDGzmIfKaj7LIA, Degree Centrality: 20.0

Node: BHx1SM6rfcowh0DwY-rwfQ, Degree Centrality: 9.0

Node: JpXCEh8PSgrH4nIHCN9qxQ, Degree Centrality: 19.0

Node: CU75YM3XOAQ4lO12eWdlcA, Degree Centrality: 180.0

Node: JbACN82QLDl\_D00A5cmLlQ, Degree Centrality: 60.0

Node: cw2QlnunGxprse--SmlPuA, Degree Centrality: 41.0

Node: T9fF2OXS7FObKpmaxTGXVw, Degree Centrality: 50.0

Node: -bR\_RgtKytmFOHGPVUBcWg, Degree Centrality: 172.0

Node: xexlhXz6hVIVWE3EelFEEw, Degree Centrality: 38.0

Node: XOZ4BlYb2jYuTpL6AJMUsg, Degree Centrality: 65.0

Node: 4P2OKnuCnGYWQsN9n6uP2A, Degree Centrality: 5.0

Node: 3J3-6jb4-Kq9Oi99H-f2-Q, Degree Centrality: 178.0

Node: dL0GYNilzv\_esQ6GD5Vcqw, Degree Centrality: 83.0

Node: 9KiDjwHiQbHBV6iSTvIz7Q, Degree Centrality: 18.0

Node: r-qXw4hn\_eRTUq4BL2DwvQ, Degree Centrality: 12.0

Node: 6wnK6DP8DWe\_c50RC-L5Ig, Degree Centrality: 45.0

Node: rB2TBeaux5ClXtEZOTtqxQ, Degree Centrality: 13.999999999999998

Node: 1KVJv7Srbxcy5vzs-pnjVg, Degree Centrality: 33.0

Node: 0gJmDImte1jwNN3leCZmPA, Degree Centrality: 47.0

Node: e0Rl7h\_Srppap6BavlPB3Q, Degree Centrality: 40.0

Node: Bxmhm659VqrQYHc0hiku5w, Degree Centrality: 219.0

Node: gcLHVHLDOozjllD-yiAnlQ, Degree Centrality: 73.0

Node: GjQPosKRsjgy6YOClQOUlA, Degree Centrality: 70.0

Node: x8djQAyYn5L-E5lgqRAq-w, Degree Centrality: 16.0

Node: UOS2Ef\_7g4GX1M11xe\_hkQ, Degree Centrality: 12.0

Node: Bda\_tg3XnKdHIKYzrnGkFQ, Degree Centrality: 17.0

Node: SvDyTNMMznMKt\_W1IQ1v6Q, Degree Centrality: 74.0

Node: Hzo\_eUL2\_9eHAVzIBfH-3g, Degree Centrality: 19.0

Node: 3R-DJGoG2IPzr\_SiPMtmeA, Degree Centrality: 45.0

Node: PHPi88XcNhbRsiAeDZn1gA, Degree Centrality: 25.0

Node: -b3VxSmRw1Qot8dtDLdluQ, Degree Centrality: 104.0

Node: BXfXO9qx67QjzASjMVyJwA, Degree Centrality: 53.00000000000001

Node: EhW3VQOKH2zEZLZ3gCL8YA, Degree Centrality: 70.0

Node: 2oJEZAxMIt9dGwap1r6xAg, Degree Centrality: 147.0

Node: YCqc4n0-S0k5myHs2s7Aew, Degree Centrality: 148.0

Node: N3kOzF1phNSJYFe8SiCloQ, Degree Centrality: 6.999999999999999

Node: mt8Vih0UP5Nv8eB-sGvGMA, Degree Centrality: 44.0

Node: nl60kTdUtKs8L\_DfnD4i7A, Degree Centrality: 17.0

Node: YHrP-o3aTo1JJXGsQovU0A, Degree Centrality: 43.0

Node: O0CyCnSFr7cYK78nH2w25Q, Degree Centrality: 118.0

Node: LporxuZB4AEg4mhLYhfpDw, Degree Centrality: 83.0

Node: FlnE3kQ\_gvFfI4RrF0WPug, Degree Centrality: 40.0

Node: 1B6S6XDoX1fWnQI0\_K1b1Q, Degree Centrality: 69.0

Node: 1KwwJvCwwjdtlgeuxoMhsQ, Degree Centrality: 136.0

Node: 36rOfWjUgQ4q-qruijBjCQ, Degree Centrality: 6.999999999999999

Node: 1KJ-RZPlWo\_wLA\_VJpSR-A, Degree Centrality: 86.0

Node: i\_kM6kP4u4Wxr3o3\_9XN\_A, Degree Centrality: 45.0

Node: Y2HPRyCYydIIJ\_\_buVEUjg, Degree Centrality: 96.0

Node: XEQp7kQVLJNXOXs5i\_pU-Q, Degree Centrality: 189.0

Node: 926oG2NU50cXm1T\_i2q30A, Degree Centrality: 124.0

Node: 8qhSEJ27l14Uv3Bger4eVQ, Degree Centrality: 222.0

Node: wMmvlgv\_-K2yLx1\_IDobVw, Degree Centrality: 61.0

Node: \_vXUaBjScB75r0yYOv-FIw, Degree Centrality: 31.0

Node: Ql5icyL9DGN9qn1-tUaN-g, Degree Centrality: 173.0

Node: U6PmPJdNMI\_dTUPySS5TDg, Degree Centrality: 16.0

Node: sjgFuxDHiVOHrfuP1MtEkg, Degree Centrality: 36.0

Node: gqmQA9TIdmKz3tCnz6DqFA, Degree Centrality: 141.0

Node: -361Hc0tlxSYdrH\_C3OgzA, Degree Centrality: 35.0

Node: mNrV8pJO8lpEPMwF0ca2eQ, Degree Centrality: 12.0

Node: IWUcc1uqbhler61IMVMKuQ, Degree Centrality: 13.0

Node: Cmw00BFD1l-\_DJHPuKi2Rw, Degree Centrality: 197.0

Node: sbSfsHIqQ3npLgCJCTq6XA, Degree Centrality: 64.0

Node: 9b-LZWsj75mmfMYuChXDkg, Degree Centrality: 164.0

Node: 0-M3vGd6IveJh77-Bwc8EQ, Degree Centrality: 239.0

Node: x3FmL5Xthl70mWDtiFHfNQ, Degree Centrality: 12.0

Node: sankqYOVWpYX\_T5kGZRRKQ, Degree Centrality: 38.0

Node: T9hQBMwt8-3okULfDZx-Lw, Degree Centrality: 55.00000000000001

Node: AAQ3g1ufbkOEuPg4JJ3YnQ, Degree Centrality: 27.999999999999996

Node: vio2OwMG\_gbw0xFUDIQzog, Degree Centrality: 61.0

Node: mwicE5Un-uvqDtWL5wNBcA, Degree Centrality: 75.0

Node: Sb8srYjjOMo0XQcloQ7qwA, Degree Centrality: 10.0

Node: qOrd\_jWT3e16\_wwRSpvYwQ, Degree Centrality: 197.99999999999997

Node: 1O\_U1tWSb\_E89fyanhb\_qQ, Degree Centrality: 162.0

Node: 0fQdnsMCqBk4z4RlNJYVdQ, Degree Centrality: 4.0

Node: zwBvdDWFQpYJE1UMDTlSyw, Degree Centrality: 4.0

Node: oT-JmelJHnnOP\_\_rQhGq2A, Degree Centrality: 45.0

Node: VLwCKXBrVjBHaMwxLz5AcQ, Degree Centrality: 42.0

Node: ihL\_QVjG98BdPtD6\_bVuuQ, Degree Centrality: 64.0

Node: 5rSg5FARufPsy\_ACLLhy-g, Degree Centrality: 135.0

Node: L3Kf7QevGGbMneIi1jUsLw, Degree Centrality: 182.0

Node: T4LfF6fT4\_5UuP6ZpMjUGQ, Degree Centrality: 116.0

Node: XnNk4Ka8HBiSKh2dEHEqvA, Degree Centrality: 11.0

Node: XD5ylS\_X5k7YQoG8p5MUMQ, Degree Centrality: 115.0

Node: ZXhxxmJ1TAAcTa2Zksfpnw, Degree Centrality: 38.0

Node: 5HRLUzKrs27kuQhgJQijnQ, Degree Centrality: 40.0

Node: 3yGN1hq\_X-\_xfzpgzE7j4A, Degree Centrality: 98.0

Node: wnAEZpQ38XgHElOz4Vd6UQ, Degree Centrality: 12.0

Node: Lhf\_GwM-UA23S6v1guJRmw, Degree Centrality: 25.0

Node: UpUgBjiP11bC5bmUA9f9mQ, Degree Centrality: 54.00000000000001

Node: IBWzg15XkNO25hOpQHM7ig, Degree Centrality: 51.0

Node: 9vR01HFj18HzlASzaYOfxA, Degree Centrality: 10.0

Node: gWtfAb3VVOSApDXrlOg5Aw, Degree Centrality: 55.00000000000001

Node: s93SZLFNiQV\_uKM\_HCF2ew, Degree Centrality: 12.0

Node: D2zdlEHEO5aG-gUbIt\_qTQ, Degree Centrality: 192.0

Node: NonD6PlCeOW6f3R8Kht3Mw, Degree Centrality: 13.0

Node: QHWYlmVbLC3K6eglWoHVvA, Degree Centrality: 641.0

Node: G5bm\_MBXXkX4TwVPtke7-w, Degree Centrality: 101.0

Node: GuX\_h4rctgN9X3p3SyK-1Q, Degree Centrality: 23.0

Node: W2lEjwsnCqm3SmjleJ0xlw, Degree Centrality: 130.0

Node: LPkl59vEZ7-jsEc3Txy3jA, Degree Centrality: 48.0

Node: RT4apxmKb35wLe7pbyjFiw, Degree Centrality: 16.0

Node: EUkh0Qyf\_Y4-B69w\_z8n6Q, Degree Centrality: 73.0

Node: DKI7QWP8tHdUZs9RuhkJOw, Degree Centrality: 100.0

Node: hI8FAbwX6hShUCK1xnpDhw, Degree Centrality: 32.0

Node: uRVQjDNEk9MHjNzjb\_LPng, Degree Centrality: 16.0

Node: rfyx5Ydw2rUWqotxEzT94Q, Degree Centrality: 44.0

Node: \_72FLH0VN5iUei4G3s5mYw, Degree Centrality: 12.0

Node: 4vPwcn1\_\_aAev4ehF2UhDw, Degree Centrality: 37.0

Node: VJJvf5TwX2xXn2mFducV6w, Degree Centrality: 48.0

Node: yb2vAoH3E-R11yWmnT570w, Degree Centrality: 358.0

Node: PQYuPr2Dfm2S49EULjl1qw, Degree Centrality: 154.0

Node: 2z\_dEk3ZllVLJvS-x18dog, Degree Centrality: 18.0

Node: 1N9WC6FwF8MSc7BHbIP35A, Degree Centrality: 12.0

Node: DHtWU5koh-feJMS\_2VCejg, Degree Centrality: 6.0

Node: EwEwG4vFa8TIeUGmNJSzKA, Degree Centrality: 159.0

Node: klU8EyJ8Bp1g\_HTIDkER2A, Degree Centrality: 85.0

Node: jqqLV2rmylDbr2sHdt31Jw, Degree Centrality: 125.00000000000001

Node: XSuO2E30ArnrjH9jquaK5Q, Degree Centrality: 104.0

Node: s3ZR7G5l-YN5fqms8vRSRw, Degree Centrality: 42.0

Node: naF9xAl3YS\_tBYnMyXV9dQ, Degree Centrality: 23.0

Node: ZV8eIF820nOhsI-Tk0qt-g, Degree Centrality: 81.0

Node: ADj5Zg8kKkEenjMYt0KxbQ, Degree Centrality: 98.0

Node: 0YELKCY1VMIA3gmP2DkHSg, Degree Centrality: 31.0

Node: sCkBUXw-GrMvRRxcun-Alg, Degree Centrality: 52.0

Node: rgDx2Yr3bUAzQ6srMiuPsQ, Degree Centrality: 45.0

Node: CflykRQLCJNUW3tVWmRjoA, Degree Centrality: 110.00000000000001

Node: -EHrU\_DwtX2Jv4NbAMppTA, Degree Centrality: 251.0

Node: QoezRbYQncpRqyrLH6Iqjg, Degree Centrality: 119.0

Node: GTS97x6mFLjGXn3ITKaQuw, Degree Centrality: 122.0

Node: 0u7ARPwjPyoU\_y2UZY9Pkw, Degree Centrality: 54.00000000000001

Node: a787xY6YqP48fAO2i9j-6w, Degree Centrality: 4.0

Node: x-8eEo5Vo4Eb27sI8oO2wg, Degree Centrality: 98.99999999999999

Node: AuIfHVaGGIKbPw-V0Z9BOA, Degree Centrality: 36.0

Node: uhkd7al0Z4FV7MtDNRXnlA, Degree Centrality: 152.0

Node: 7R7eE6yIQ3kRtOF0HrzJeQ, Degree Centrality: 123.00000000000001

Node: 2pYUBcNkUxD1Bg8FA5lCzg, Degree Centrality: 40.0

Node: 3Sxj2NQ-2Gr06qoax1R-Kw, Degree Centrality: 30.0

Node: CO05TYrf8g0WTOB\_bmE3uQ, Degree Centrality: 53.00000000000001

Node: KX4MseOnBKE3pSsJjXHd-w, Degree Centrality: 71.0

Node: 7jRXF4N5NzxYuNN-HLCSEw, Degree Centrality: 116.0

Node: nLyyTrxpEOdmNl9P95zXGA, Degree Centrality: 110.00000000000001

Node: HfIvH\_cVCLUZ1ogyiK9J2Q, Degree Centrality: 96.0

Node: oPHMgkDfIkMeTtXXLD-pZw, Degree Centrality: 3.0

Node: Un5bYy2VjhL137p0qGGYRQ, Degree Centrality: 75.0

Node: ClECgEMnf6\_xlQzEk3IKCA, Degree Centrality: 17.0

Node: 4gszBjoouIzfi1ltSQZ2BQ, Degree Centrality: 127.00000000000001

Node: xsumpGkMjvbULFeoDEvmEg, Degree Centrality: 47.0

Node: 1WwrdoWB8hY-WDA2YWjH1g, Degree Centrality: 148.0

Node: mY4i1N0Hm2fjIgU0Eyn11Q, Degree Centrality: 147.0

Node: YhpUIN4ByTEMdFbWJvIB9A, Degree Centrality: 118.0

Node: 9iSoPNBV54dj6L0rxO4RWw, Degree Centrality: 49.0

Node: 0Lze6JSxLKXJ8sI4A2C9uQ, Degree Centrality: 128.0

Node: dS4\_CM11h7E-EDI7-Adsgg, Degree Centrality: 164.0

Node: DUKMeBfK\_XQ2kHCdhc4zGA, Degree Centrality: 40.0

Node: jGn6f8Y8A9mnNlVSc4lAJQ, Degree Centrality: 22.0

Node: xPLsyOpG9kpoXq2j394\_Jg, Degree Centrality: 104.0

Node: ReVpjIDupK\_VMPn7ZxPvOQ, Degree Centrality: 202.0

Node: zuGpUPcfws1FeupSkt8WVw, Degree Centrality: 15.0

Node: bdJXwEREaJTeZrDHIo276Q, Degree Centrality: 32.0

Node: tW0hvukcMx-ESDS7MlNgSg, Degree Centrality: 216.00000000000003

Node: MOdKvwwY1cHc82W\_iZR54Q, Degree Centrality: 31.0

Node: A3avJvt325N89FOPQyiyWQ, Degree Centrality: 4.0

Node: bWf1ppjunCE2vULVji613Q, Degree Centrality: 196.0

Node: HGW3R1b2wQCq\_QzBXNmcIA, Degree Centrality: 113.0

Node: 1u2IlvwOMndfuRk9EVcieQ, Degree Centrality: 50.0

Node: RjTT7tn9BPTfRmyJagMN6g, Degree Centrality: 65.0

Node: 8C0jJ6AmcDZGscuABtZRdQ, Degree Centrality: 12.0

Node: XTjRoZEPq5X5UDKUBR7s-A, Degree Centrality: 2.0

Node: awXHpCap6VJmoohT9MfSbQ, Degree Centrality: 2.0

Node: StQxuXJYJcKL\_57IceqkaQ, Degree Centrality: 60.0

Node: tSUuNHQPBIv2UZxgH4Qy7w, Degree Centrality: 12.0

Node: G\_bi7l0nU74I4Vr1V7IcMg, Degree Centrality: 139.0

Node: pbrDl1xGdM9Vo34dxlcFow, Degree Centrality: 62.0

Node: qV3D9d2UteZ4-Mq0hqlcBw, Degree Centrality: 53.00000000000001

Node: gpR94OfM1AYkIBDF42K6xQ, Degree Centrality: 30.0

Node: G7NoESFUK571kBSlr-1AFA, Degree Centrality: 62.0

Node: EjG3BCsSGj9jSphYFrd9MA, Degree Centrality: 3.0

Node: VgPDZyDLIWe4NVetnvjqig, Degree Centrality: 131.0

Node: 0uLQR2naPnvMPrrvaCtlLQ, Degree Centrality: 70.0

Node: dsKwDe5Mw\_SiDBl3d4t1yQ, Degree Centrality: 75.0

Node: jJDvC05yT8Xb5R9vmMa69Q, Degree Centrality: 84.0

Node: UApicJDoDgayR1N1ZLL3vw, Degree Centrality: 188.0

Node: c\_MsK\_ra1MB1Q9KvZgNwww, Degree Centrality: 13.0

Node: SK5QTllf553tIKs0hGaZQg, Degree Centrality: 98.99999999999999

Node: fAqczDBwqn6aZxL-Ggij0Q, Degree Centrality: 23.0

Node: iH3LWJ6yisLnGEnd6Ch29Q, Degree Centrality: 54.00000000000001

Node: jDHFzjdJ0tHwxXunU1cWuQ, Degree Centrality: 87.0

Node: Xit0e7j\_t2Sl0-sx6Fq-BQ, Degree Centrality: 118.0

Node: pIjYZSGPqorSL77I4MaWvg, Degree Centrality: 25.0

Node: tAFbBr84k5yY-b28zxXK7g, Degree Centrality: 26.0

Node: 6Md7LjLUqf0scKfl78CQDg, Degree Centrality: 119.0

Node: HrnqNg-thxOEffNFo-hufw, Degree Centrality: 139.0

Node: GKngC5OHD-zd3\_yih0-AkA, Degree Centrality: 16.0

Node: vBMgb2yGnu0JJdwy6vI6Uw, Degree Centrality: 45.0

Node: vfsLSYAE-ho5UH45IsJj\_Q, Degree Centrality: 55.99999999999999

Node: pDR3n7cjtbTrkgDxfUUDtw, Degree Centrality: 165.0

Node: u0JEC2BTLJhoopEHtH0\_2Q, Degree Centrality: 13.999999999999998

Node: u7KZF5EegKTUt9xtr0yMYQ, Degree Centrality: 44.0

Node: wFHz88EklQKK3qah4rSLJw, Degree Centrality: 186.00000000000003

Node: XBlwldJfMJPzgEatHKFx8w, Degree Centrality: 133.0

Node: GfRhcofYZGPP4iRXe-Vw8w, Degree Centrality: 69.0

Node: baxAe39nPgmAhkNwqvoHnQ, Degree Centrality: 90.0

Node: Ol7cbKSHWOU\_VDTt2Wcu2A, Degree Centrality: 27.999999999999996

Node: 0rV632A\_Lmsw-5qJlqwJ8g, Degree Centrality: 4.0

Node: JpRss-a6Nb1nc3fUvl3MAg, Degree Centrality: 222.0

Node: LBFZt5VXNiQFv5D-pY0szg, Degree Centrality: 17.0

Node: Vpv7\_M6dpg92GwappohXlw, Degree Centrality: 3.0

Node: DE7oNZUBOkAQ4zhA8tZQLg, Degree Centrality: 34.0

Node: 9X\_Sh8wiS1oiXq1klrJmxw, Degree Centrality: 116.0

Node: 6YfCkPaoSXzdpfj\_9jfRDA, Degree Centrality: 66.0

Node: HHD86HwgGB8oHlc04VT1VQ, Degree Centrality: 115.0

Node: isRg8RrE1iIv1ks27A1FuA, Degree Centrality: 107.0

Node: sSzoKdBQlU2DvNurOHxCFQ, Degree Centrality: 74.0

Node: z-U6eeQ4QszzXxS1fNuajQ, Degree Centrality: 38.0

Node: FLq9CEy5MCKSlMuPEhumnw, Degree Centrality: 39.0

Node: mEudf3Z2rKw-DoEbsImUCQ, Degree Centrality: 72.0

Node: 8E2--KcyOrJx8my51jid2w, Degree Centrality: 31.0

Node: RmZ9CORyRONwfJYGrPPpbA, Degree Centrality: 2.0

Node: CwrmXi2n\_W6Jb-y\_ySA0cQ, Degree Centrality: 13.999999999999998

Node: ny1N\_Py01kVoGOvL9oKjMQ, Degree Centrality: 240.99999999999997

Node: xGcpC8D4Sio-bN9KCr054g, Degree Centrality: 103.0

Average degree centrality :80.73942701227831

# Difference between two graphs:

# In both graphs, most of the nodes were connected and most of the central nodes plays the prominent role. The central nodes in both the graphs determines the connectivity of network and they act as hubs i.e, they are influential and they have been given reviews by most of the users.

Source code:

import json

import pandas as pd

import networkx as nx

import matplotlib.pyplot as plt

# Define the criteria

review\_count\_threshold = 65

city\_to\_match = "Tucson"

max\_stars = 2.0 # Maximum star rating for reviews

# Load business data into a DataFrame

business\_data = pd.read\_json('yelp\_academic\_dataset\_business.json', lines=True)

business\_data = business\_data[['business\_id', 'city', 'review\_count']] # Keep only specified columns

# Filter businesses based on criteria

filtered\_businesses = business\_data[(business\_data['city'] == city\_to\_match) & (business\_data['review\_count'] >= review\_count\_threshold)]

# Load review data into a DataFrame

review\_data = pd.read\_json('yelp\_academic\_dataset\_review.json', lines=True)

review\_data = review\_data[['business\_id', 'user\_id', 'stars']] # Keep only specified columns

# Filter reviews associated with filtered businesses and with stars <= 2

filtered\_review\_data = review\_data[(review\_data['business\_id'].isin(filtered\_businesses['business\_id'])) & (review\_data['stars'] <= max\_stars)]

# Create a user-business association DataFrame

user\_business\_associations = filtered\_review\_data.groupby('user\_id')['business\_id'].apply(set).reset\_index()

# Create a network graph

graph = nx.Graph()

# Add nodes to the graph

graph.add\_nodes\_from(filtered\_businesses['business\_id'])

# Add edges based on common reviewers

for \_, row in user\_business\_associations.iterrows():

businesses = list(row['business\_id'])

if len(businesses) > 1:

for business1 in businesses:

for business2 in businesses:

if business1 < business2: # Avoid self-comparison and duplicates

graph.add\_edge(business1, business2)

# Create a copy of the original graph

filtered\_graph = graph.copy()

# Find and remove unconnected nodes

isolated\_nodes = [node for node, degree in dict(graph.degree()).items() if degree == 0]

filtered\_graph.remove\_nodes\_from(isolated\_nodes)

# Compute degree centrality for the filtered graph

degree\_centrality\_filtered = nx.degree\_centrality(filtered\_graph)

# Calculate the average degree centrality for the filtered graph

average\_degree\_centrality\_filtered = sum(degree\_centrality\_filtered.values()) / len(degree\_centrality\_filtered)

print("Degree Centrality for Filtered Graph:")

for node, centrality in degree\_centrality\_filtered.items():

print(f"Node: {node}, Degree Centrality: {centrality}")

print(f"Average Degree Centrality for Filtered Graph: {average\_degree\_centrality\_filtered}")

# Draw the filtered graph

pos\_filtered = nx.spring\_layout(filtered\_graph)

nx.draw(filtered\_graph, pos\_filtered, with\_labels=False, node\_size=10)

plt.show()