Cloud Computing Capstone
…

Course Certificate

Quick Questions   **15**

Announcements

Syllabus

Orientation (Mandatory; Start Here)

AWS Credit Opt-in Consent Form

Responses to Commonly Asked Questions

TASKS

Project Overview ←

Task 1

Task 1 Queries

Task 1 Example Solutions

Task 2

Task 2 Queries

Task 2 Example Solutions

COURSE COMMUNITY

All Forums

Know Your Classmates

▢ Help Center

Task 2 Example Solutions

Help Center

Table of Contents

Task 2 Queries

Below, you will find the set of individual queries for Questions 2.1-2.4 and 3.2 that must be included in your submission for Task 2.

Questions 2.1 and 2.2

Provide the results using the following airport codes.

- SRQ
- CMH
- JFK
- SEA
- BOS

Questions 2.3 and 2.4

Provide the results using the following routes.

- LGA   BOS
- BOS   LGA
- OKC   DFW
- MSP   ATL

Question 3.2

Provide the results using the following routes and start dates. Dates are in dd/mm/yyyy format.

- BOS   ATL   LAX, 03/04/2008
- PHX   JFK   MSP, 07/09/2008
- DFW   STL   ORD, 24/01/2008
- LAX   MIA   LAX, 16/05/2008

Task 2 Example Solutions

Question 2.1

Airport: (Airline, Average delay in minutes)

SRQ

a. (TZ,-0.3819969742813918305597579425113464)
b. (XE,1.4897667777248929081389814374107577)
c. (YV,3.404021937842778793418647166361974)
d. (AA,3.6334985133795837462834489593665709)
e. (UA,3.9521220624342336022448263766709926)
f. (US,3.968398289674153437853246178797857)
g. (TW,4.3046760650181033818658038671906509)
h. (NW,4.8563592413536630717738936407586646)
i. (DL,4.8691794341573456151893974997655016)
j. (MQ,5.3505882352941176470588235294117665)

CMH

a. (DH,3.491114701130856219709208400646204)
b. (AA,3.5139262599083703003417933241218862)
c. (NW,4.0415550052579802571321958004000285)
d. (ML (1),4.3664596273291925465838509316770199)
e. (DL,4.713441339740944368269013165776967)
f. (PI,5.201294879340788699234844025897587)
g. (EA,5.937389380530973451327433628318584)
h. (US,5.993296353520258689833928556352001)
i. (TW,6.159097425311084351166924708985607)
j. (YV,7.961191335740072202166064981949458)

JFK

a. (UA,5.9683253648716658278812279818822355)
b. (XE,8.113736263736263736263736263736264)
c. (CO,8.201208081649656321599666736096647)
d. (DH,8.742980908069950264720038504732873)
e. (AA,10.08073558389328018887826598261135)
f. (B6,11.127096222728752849234774562032)
g. (PA (1),11.52347865576748410535876475930972)
h. (NW,11.63781771651253417088349909847031)
i. (DL,11.98667318414748128014782505935563)
j. (TW,12.63907141408771804834740862931644)

SEA

a. (OO,2.705819654657855467917288424642933)
b. (PS,4.720639332870048644892286309937457)
c. (YV,5.122262773722627737226277372262774)
d. (TZ,6.345003933910306845003933910306845)
e. (US,6.412384182257776623882389212520486)
f. (NW,6.498762407390315732948490976062022)
g. (DL,6.535621328706140038970828770143225)
h. (HA,6.855452674897119341563786008230453)
i. (AA,6.939152588687251860543616285985244)
j. (CO,7.096458868617853503093286634992177)

BOS

a. TZ,3.063792085056113408151210868281158)
b. (PA (1),4.447164795047815562874489107575096)
c. (ML (1),5.734775641025641025641025641025641)

d. (EV,7.208137715179968701095461658841941)
e. (NW,7.245188786506978788111297894156791)
f. (DL,7.445339060304794998015936853168602)
g. (XE,8.102922490470139771283354510800508)
h. (US,8.687922116917663676693859771544086)
i. (AA,8.733506415381083926324038088604289)
j. (EA,8.891433950423595858173831189206150)

Question 2.2

Airport: (Airport, Average delay in minutes)

SRQ

- (EYW,0.0)
- (TPA,1.328851325393776411832500960430273)
- (IAH,1.444557477110885045778229908443540)
- (MEM,1.702959830866807610993657505285412)
- (FLL,2.0)
- (BNA,2.062314540059347181008902077151335)
- (MCO,2.364537698870186765044961955268619)
- (RDU,2.535400709882308985615542686344106)
- (MDW,2.838123554674595308886686488272217)
- (CLT,3.358363542206110823407560849300880)

CMH

- (AUS,-5.0)
- (OMA,-5.0)
- (SYR,-5.0)
- (MSN,1.0)
- (CLE,1.104986876640419947506561679790026)
- (SDF,1.352941176470588235294117647058824)
- (CAK,3.700394218134034165571616294349540)
- (SLC,3.939285714285714285714285714285714)
- (MEM,4.152021563342318059299191374663073)
- (IAD,4.158103448275862068965517241379310)

JFK

- (SWF,-10.5)
- (MYR,0.0)
- (ABQ,0.0)
- (ISP,0.0)
- (ANC,0.0)
- (UCA,1.917012448132780082987551867219917)
- (BGR,3.210280373831775700934579439252336)
- (BQN,3.606227610912096996417745935519427)
- (CHS,4.402710551790900290416263310745402)
- (STT,4.492768477394374217059560414531375)

SEA

- (EUG,0.0)
- (PIH,1.0)
- (PSC,2.650519031141868512110726643598616)
- (CVG,3.878744557801026707388394307622328)
- (MEM,4.260223698007689619014330653617616)
- (CLE,5.170169491525423728813559322033898)
- (BLI,5.198249133685938354915192412912639)
- (YKM,5.379647749510763209393346379647750)

(SNA,5.4062507940541227290052089995045102)
- (LIH,5.481081081081081081081081081081081081)

BOS

- (SWF,-5.0)
- (ONT,-3.0)
- (GGG,1.0)
- (AUS,1.2087076710435383552176917760884559)
- (LGA,3.0540178571428571428571428571428571)
- (MSY,3.2464678178963893249607553532182104)
- (LGB,5.1361767728674203494347379239465557)
- (OAK,5.7832100353811514956577677709987456)
- (MDW,5.8956375368214335811474260064552518)
- (BDL,5.9827048483130138928267649560553303)

Question 2.3

X   Y: (Airline, Average delay in minutes)

LGA   BOS:

a. (TW,-3.0)
b. (US,-2.9042429927168395497682263076583536)
c. (PA (1),-0.4187248422203448789941857575908165)
d. (DL,1.7473242247995319544343875830266465)
e. (EA,4.8213728549141965678627145085803433)
f. (MQ,9.8662268645776067436320322252153198)
g. (NW,14.4444444444444444444444444444444444)
h. (OH,27.98484848484848484848484848484848)
i. (AA,28.5)

BOS   LGA

a. (TW,-11.0)
b. (US,1.0952367939223348727898778454899575)
c. (DL,2.0246025602857993450431676094007562)
d. (PA (1),6.0717495506291192330736968224445776)
e. (EA,9.4806680694371383482377695949500026)
f. (MQ,12.6432737987852546755667780924890255)
g. (NW,15.2298546895640686922060766182298555)
h. (AA,28.0)
i. (OH,30.44827586206896551724137931034483)
j. (TZ,133.0)

OKC   DFW

a. (TW,0.1012433392539964476021314387211368)
b. (EV,1.3589743589743589743589743589743599)
c. (AA,4.5701069408504889051730060022578946)
d. (MQ,4.6757524731635445169438011304988423)
e. (DL,6.7315385583092212856963140001761228)
f. (OO,12.835087719298245614035508771929825)
g. (OH,47.5)

MSP   ATL

a. (EA,4.2015625)
b. (OO,4.766)
c. (FL,6.2926775474194971327745919971768858)
d. (DL,6.3432626278040592095223356172745307)
e. (NW,7.0158186049437071513931693817221221)
f. (OH,8.3034734917733089579524680073126114)

g. (EV,10.12092731829573934837092731829574)

Question 2.4

X   Y: Average delay in minutes

- LGA   BOS: 1.48
- BOS   LGA: 3.78
- OKC   DFW: 4.97
- MSP   ATL: 6.74

Question 3.2

Delays are in minutes, date is dd/MM/yyyy

- **BOS   ATL   LAX, 03/04/2008:**
  - Total arrival delay: 5.0
  - First leg:
    - Origin: BOS
    - Destination: ATL
    - Sched Depart: 6:00 03/04/2008
    - Arrival delay: 7.0
  - Second leg:
    - Origin: ATL
    - Destination: LAX
    - Sched Depart: 19:50 05/04/2008
    - Arrival delay: -2.0
- **PHX   JFK   MSP, 07/09/2008:**
  - Total arrival delay: -42.0
  - First leg:
    - Origin: PHX
    - Destination: JFK
    - Sched Depart: 11:30 07/09/2008
    - Arrival delay: -25.0
  - Second leg:
    - Origin: JFK
    - Destination: MSP
    - Sched Depart: 17:50 09/09/2008
    - Arrival delay: -17.0
- **DFW   STL   ORD, 24/01/2008:**
  - Total arrival delay: -19.0
  - First leg:
    - Origin: DFW
    - Destination: STL
    - Sched Depart: 7:05 24/01/2008
    - Arrival delay: -14.0
  - Second leg:
    - Origin: STL
    - Destination: ORD
    - Sched Depart: 16:55 26/01/2008
    - Arrival delay: -5.0
- **LAX   MIA   LAX, 16/05/2008:**
  - Total arrival delay: -9.0
  - First leg:
    - Origin: LAX
    - Destination: MIA
    - Sched Depart: 8:20 16/05/2008
    - Arrival delay: 10.0
  - Second leg:

- Origin: MIA
- Destination: LAX
- Sched Depart: 19:30 18/05/2008
- Arrival delay: -19.0

Created Sun 28 Feb 2016 5:25 AM MSK

Last Modified Sun 28 Feb 2016 5:42 AM

MSK