Assignment 8

Due 12 Nov at 23:59 **Points** 100 **Questions** 23

Available 30 Oct at 6:00 - 15 Nov at 23:59 Time limit None

Allowed attempts 2

Instructions

(no late submission accepted) -- Complete the assessment covering all materials covered thus far with a focus on NoSQL databases. There is no time limit for the test and you may use any available resources. However, you may not collaborate with anyone. You will have two attempts and the highest grade counts.

Attempt history

	Attempt	Time	Score	
KEPT	Attempt 2	40 minutes	91.25 out of 100	
LATEST	Attempt 2	40 minutes	91.25 out of 100	
	Attempt 1	8,174 minutes	90.4 out of 100	

(!) Correct answers are hidden.

Score for this attempt: 91.25 out of 100

Submitted 12 Nov at 16:32 This attempt took 40 minutes.

Question 1	4 / 4 pts
What should be done during EDA?	
Generate a large quantity of questions	
☑ Visualize distributions, means, variances, etc	
Identify typical values and outliers (unusual values)	
Transform data for visualization and statistical modeling	

Refine the questions you asked	
Build a sophisticated model to answer the questions	
Question 2	4 / 4 pts
Which of these is not one of the original 3 V's proposed by	oy Normadeau in

Which of these is not one of the original 3 V's proposed by Normadeau in 2003?

Veracity

Volume

Variety

Velocity

Question 3	5 / 5 pts
Voldemort is an open source database.	
key-value	
relational	
graph	
columnar	
document	

Question 4 5 / 5 pts

ment system?
0 / 5 pts

Incorrect

Question 5	0 / 5 pts
Both MongoDB and CouchDB primarily uselanguage.	_ as its native query
JSON	

Question 6	5 / 5 pts
Which of the databases below will work with R? Check all that app	oly.
✓ filehash	
MySQL	
✓ HBase	
Cassandra	

Redis		
Riak		

Question 7	5 / 5 pts
True or False? MemcacheDB is a key-value database.	
True	
○ False	

Question 8	5 / 5 pts
Storing content such as blogs is best suited for a database	se.
document	
relational	
graph	
Columnar	
○ key-value	

Question 9 5 / 5 pts

True or False? Key-Value databases are excellent for complex queries that require aggregation.

○ True			
False			
Question 10	5 / 5 pts		
is a database built on Hadoop and is designed for scaling across clusters of inexpensive computers with support for versioning and data compression.			
HBase			
MapReduce			
Cassandra			
○ MongoDB			

Question 11	5 / 5 pts
is a database that is known for its ruggedness and high even when hardware or network connectivity fails.	availability
CouchDB	
○ MongoDB	
○ Hadoop	
○ Redis	

Question 12	5 / 5 pts
A columnar database is most like an R object.	
○ list	
data frame	
○ matrix	
array	
O mode	
○ factor	
Question 13	4 / 4 pts
A table has a field "Major" that can have multiple values separated commas. This violates	d by
1st Normal Form	

	table has a field "Major" that can have multiple values separated by ommas. This violates	
1st Normal For	1	
2nd Normal For		
3rd Normal Form		
referential integ	ity	

Question 14	4 / 4 pts
Text data is encoded in SQL using the or	data type.

VARCHAR, TEXT	
O STRING, BLOB	
O TEXT, STRING	
CHARACTER, CHARSET	

Question 15	4 / 4 pts
All potential primary keys for a table are called its keys.	
candidate	
oforeign	
reference	
unique	

Question 16	4 / 4 pts
In the relationship, " helicopter is a particular type of aircraft", he	licopter is a
specialization	
generalization	
actor	
entity	

Question 17	4 / 4 pts
Every row in a table is uniquely identified by its	
primary key	
○ key	
alternate key	
○ id	

Which of the following are web scraping tools that would allow a data scientist to extract data from a web page and save into a data file loadable into R for analysis and visualization? Check all that apply. Mozenda MongoDB Hadoop Web Scraper for Google Chrome Mozenda Samurei

Question 19 5 / 5 pts

	Which of these packages is required to retrieve documents via HTTP?	
	RCurl	
	Rhttp	
	OlibURL	
	○ XML	
Partial	Question 20	2.25 / 3 pts
	For a dataset to be tidy:	
	Each variable must have its own column	
	Each observation must have its own row	
	Each value has its own cell.	
	Each type of observational unit forms a table	
	Question 21	3 / 3 pts
	The function separate accepts the convert argument. W argument is set equal to TRUE:	hen the convert

separate with convert the new columns to character strings.

separate will convert the new columns to integers

separate will convert the new columns appropriate for the data values.	to the data type that is most
separate will convert the original column	n to the most appropriate data type.

When the string vocabulary is a non-empty character string, the R commands !str_detect(vocabulary, "[aeiou]") is equivalent to str_detect(vocabulary, "^[^aeiou]+\$") True False

Incorrect

Question 23 The R code my_months <- factor (c("Jan", "Mar", "Feb","Mar"), month_level("Jan","Feb","Mar")) will convert the first vector element of my_months to NA.

Quiz score: 91.25 out of 100