

Analytics-DA-201 Pdf Format - Test Analytics-DA-201 Duration

Formula sheet for final exam

Stat 201: Formulas for final exam
****Note: You may add notes to the front and back of this formula sheet ****

- Sample mean: $\bar{x} = \frac{\sum x}{n}$; Population mean $\mu = \sum [x P(x)]$
- median: the midpoint of the observations when they are ordered from smallest to largest.
- $z = \frac{\text{observation} - \text{mean}}{\text{std dev}}$
- Residual = $y - \hat{y}$ where $\hat{y} = a + bx$
- r (correlation coefficient) = $(+ \text{ or } -)\sqrt{r^2}$
- $P(A) = \frac{N(A)}{N(S)}$ $P(A^c) = 1 - P(A)$ $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
- $P(A|B) = \frac{P(A \text{ and } B)}{P(B)}$ $P(A \text{ and } B) = P(A|B)P(B)$
- Mutually exclusive (disjoint) events: $P(A \text{ and } B) = 0$
- Independent events: $P(A|B) = P(A)$; $P(B|A) = P(B)$; $P(A \text{ and } B) = P(A)P(B)$
- Properties of a probability distribution: 1. $0 \leq P(x) \leq 1$ 2. $\sum P(x) = 1$
- Binomial probability: $P(X = x) = \frac{n!}{x!(n-x)!} p^x q^{n-x}$ where $x = 0, 1, 2, \dots, n$
- For Binomial random variable X: $\mu_X = np$ and $\sigma_X = \sqrt{npq}$
- The mean and standard error of a sample proportion is: $\mu_{\hat{p}} = p$ and $\sigma_{\hat{p}} = \sqrt{\frac{p(1-p)}{n}}$
- The mean and standard error of a sample mean is: $\mu_{\bar{x}} = \mu$ and $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$
- General way to construct confidence interval: point estimate \pm margin of error:
 - Population proportion: $\hat{p} \pm z_{\alpha/2} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$
 - One population mean (σ known): $\bar{x} \pm z_{\alpha/2} \frac{\sigma}{\sqrt{n}}$
 - One population mean (σ unknown): $\bar{x} \pm t_{\alpha/2, df} \frac{s}{\sqrt{n}}$ where $df = n - 1$

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Test Analytics-DA-201 Duration | Detail Analytics-DA-201 Explanation

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Salesforce Analytics-DA-201 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> ABAP Core Data Services and Data Modeling: This section of the exam measures the skills of the SAP ABAP Cloud Developer and covers the fundamental understanding of core data services (CDS) and how to design data models in the SAP ABAP environment. Candidates are expected to know how to define, consume, and optimize CDS views effectively to support application development in the cloud.
Topic 2	<ul style="list-style-type: none"> Core ABAP Programming: This part of the exam assesses the foundational programming skills of the SAP ABAP Cloud Developer. 4HANA Technical Consultant: It includes knowledge of syntax, control structures, modularization, and internal tables in ABAP. The section aims to validate the candidate's proficiency in writing clean, efficient ABAP code using best practices.
Topic 3	<ul style="list-style-type: none"> SAP Clean Core Extensibility and ABAP Cloud: This part of the exam targets the SAP ABAP Cloud Developer. 4HANA Technical Consultant and covers concepts of clean core extensibility using ABAP in the cloud. The focus is on in-app and side-by-side extensibility techniques, ensuring that custom code complies with cloud-readiness principles and does not compromise the upgrade stability of core systems.
Topic 4	<ul style="list-style-type: none"> ABAP SQL and Code Pushdown: This section of the exam measures the competencies of the SAP ABAP Cloud Developer related to performance optimization through ABAP SQL and code pushdown techniques. It ensures that the developer understands how to shift logic to the database layer using efficient SQL scripting to enhance performance in data-intensive applications.
Topic 5	<ul style="list-style-type: none"> ABAP RESTful Application Programming Model: This section of the exam evaluates the capabilities of the SAP ABAP Cloud Developer. 4HANA Technical Consultant in using the ABAP RESTful Application Programming Model (RAP). It focuses on understanding the structure and components of RAP, including behavior definitions, service bindings, and metadata extension. The goal is to validate the ability to develop modern and scalable applications using RAP.

Salesforce Certified Tableau Data Analyst Sample Questions (Q173-Q178):

NEW QUESTION # 173

You have the Mowing two tables that contains data about the books in a library.

Both tables are incomplete so there are books missing from the tables.

You need to combine the tables. The solution must ensure that all the data is retained. Which type of join should you use?

- A. Inner join
- B. Full outer join**
- C. Right join
- D. left join

Answer: B

Explanation:

To combine the two tables that contain data about books in a library and ensure that all the data is retained, you should use a full outer join. A full outer join is a type of join that returns all rows from both tables, regardless of whether there is a match or not. If there is no match, null values are filled in for the missing fields.

To perform a full outer join, you need to do the following steps:

* Connect to both tables as your data sources in Tableau. You can use either live or extract connections.

* Drag one table to the canvas and drop it on top of another table. This will create a join between them based on a common field.

* Click on the join icon between the tables and select Full Outer Join from the drop-down list. This will change the join type to full

outer join and show all rows from both tables.

* Optionally, you can add or remove join clauses by clicking on Add or Remove buttons next to each clause. You can also change or rename fields by clicking on them.

The other types of joins are not correct for this scenario. An inner join returns only the rows that have a match in both tables, which will exclude any books that are missing from either table. A left join returns all rows from the left table and only the matching rows from the right table, which will exclude any books that are only in the right table. A right join returns all rows from the right table and only the matching rows from the left table, which will exclude any books that are only in the left table. References:

https://help.tableau.com/current/pro/desktop/en-us/joining_tables.htm

https://help.tableau.com/current/pro/desktop/en-us/join_types.htm

When combining two datasets that are both incomplete and where it's important to retain all data from both sources, a full outer join is appropriate. This type of join ensures that all records from both tables are included in the combined dataset, even if there are no matching records in the other table.

NEW QUESTION # 174

You have the following dataset.

When you use the dataset in a worksheet, you want Sales to appear automatically as shown in the following table.

What should you do?

- A. Change the default number format of the Sales field
- B. Create a calculated field that uses a formula of 'S' + str($i < (Sales)/1000$)).
- C. Change the data type of the Sales field to String
- D. Create a calculated field that uses a formula of 'S' * str(Round((sales],2)) + 'k'

Answer: A

Explanation:

To make Sales appear automatically as shown in the second table, you should change the default number format of the Sales field. The default number format is how Tableau displays a field when you drag it to a worksheet. You can change the default number format by right-clicking on the field and selecting Default Properties > Number Format from the menu. This will open a dialog box where you can choose a category, such as Currency or Percentage, and customize the options, such as decimal places or prefixes. In this case, you want to change the default number format of Sales to Currency with zero decimal places and a custom prefix of "S". This will make Sales appear as "S" followed by the rounded value in thousands.

The other options are not correct for this scenario. Changing the data type of Sales to String will not affect how it appears on a worksheet. Creating a calculated field that uses a formula will not change the default number format of Sales, but create a new field that you have to drag to a worksheet. Converting Sales to Attribute will return only one value for each partition of data, which will not show any variation over time.

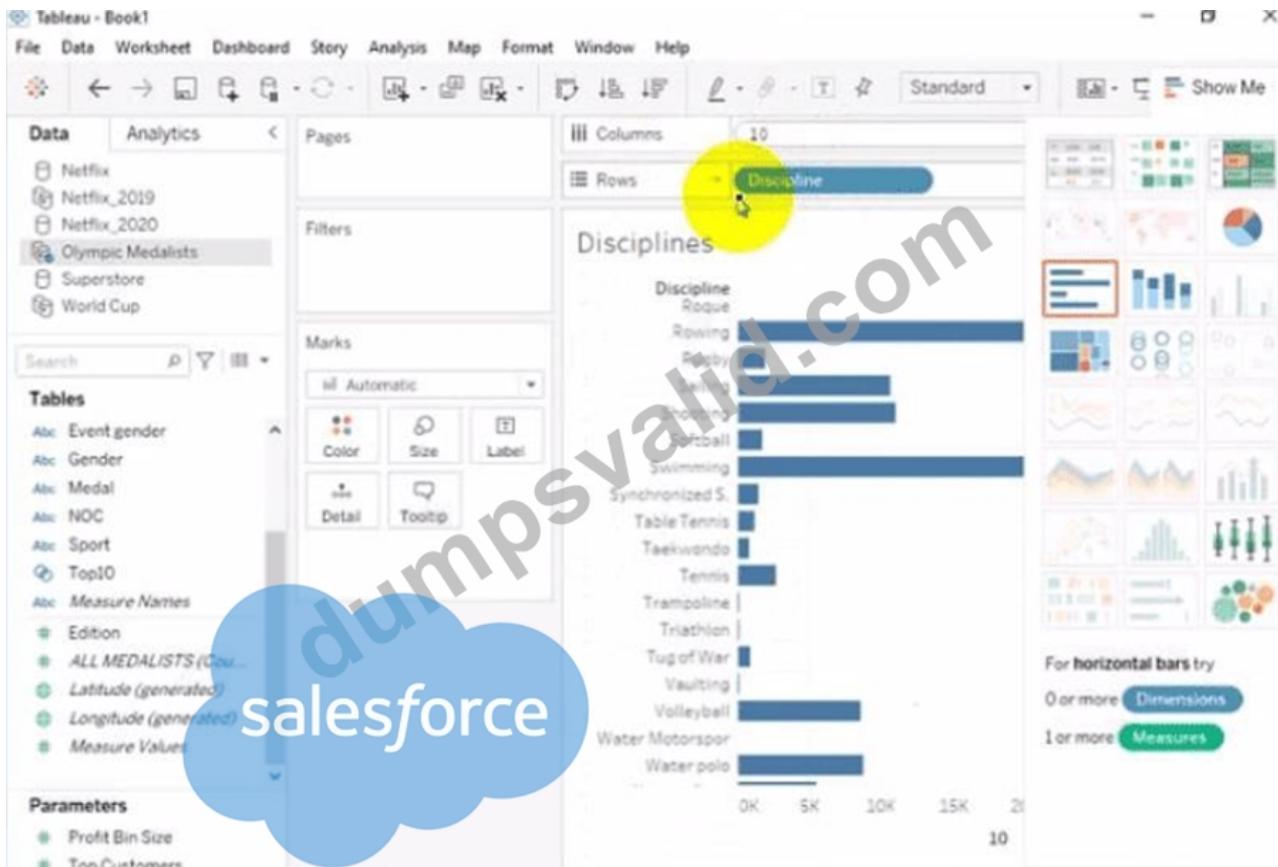
References: <https://help.tableau.com/current/pro/desktop/en-us/formatting.htm> https://help.tableau.com/current/pro/desktop/en-us/formatting_change_default.htm

To achieve the formatting as shown in the example, where sales figures are displayed with a "K" to represent thousands and rounded to the nearest thousand (e.g., \$20K, \$44K, etc.), you would need to adjust the default number format of the Sales field in Tableau. By changing the default number format, every instance where the Sales field is used would automatically reflect this new formatting. This is more efficient than creating a calculated field as it preserves the numeric nature of the field, allowing for further numerical operations and aggregations.

NEW QUESTION # 175

Open the link to Book1 found on the desktop. Open Disciplines worksheet.

Filter the table to show the members of the Top10 set and the members of the Bottom10 set. There should be a total of 20 rows.



Answer:

Explanation:

check the steps below in explanation.

Explanation:

To filter the table to show the members of the Top10 set and the Bottom10 set, you need to do the following steps:

- * Open the link to Book1 found on the desktop. This will open the Tableau workbook that contains the Disciplines worksheet.
- * Click on the Disciplines tab at the bottom of the workbook to open the worksheet. You will see a table that shows the disciplines, sales, and profit for each salesperson.
- * Click on the drop-down arrow next to Salesperson on the Filters shelf. This will open a menu that allows you to filter by different criteria.
- * Select Set from the menu. This will show you the sets that are available for the Salesperson field. You will see Top10 and Bottom10 as two sets that have been created based on the sales ranking.
- * Check the boxes next to Top10 and Bottom10. This will filter the table to show only the members of these two sets. You can also click on All to deselect all other values.
- * Click OK to apply the filter. You will see that the table now shows 20 rows, 10 for each set.

References: <https://help.tableau.com/current/pro/desktop/en-us/sets.htm>

<https://help.tableau.com/current/pro/desktop/en-us/filtering.htm>

NEW QUESTION # 176

You have the following primary data source that contains a dimension named Dorm_Code.

You receive the following secondary data source that contains updated dorm codes.

You need to bring the updated dorm codes into Tableau and use the codes in existing visualizations. The new dorm codes must use the existing field name of Dorm_Code.

What should you do?

- A. Bring in the secondary data source by using relationships. From the Data pane, right-click Dorm_Name select Replace References, and then select Dorm_Name_New
- B. Bring in the secondary table as a left join to the primary data source. From the Data Source page, select Create Calculated Field in the Dorm_Name field and enter [Dorm_Name_New] in the calculation window
- C. Create a data blend and select Edit Primary Aliases to replace the primary data source alias values with values from the secondary data source

- D. Bring in the secondary data source as a union.

Answer: A

Explanation:

* Using relationships: You can use relationships to link the secondary data source with the primary data source based on a common field. This will allow you to use fields from both data sources in your visualization without creating new fields or duplicating data. You can then replace references to update the dimension values. For example, you can use relationships to link the updated dorm codes with the primary data source and then replace Dorm_Code with Dorm_Code_New in your visualization.

<https://community.tableau.com/s/question/0D54T00000C51dZSAR/update-data-view-based-on-dimension> To update existing visualizations with new codes without changing the field name, using relationships to bring in the secondary data source is appropriate. Then using Replace References allows you to update the references from the old dorm codes to the new ones while maintaining the existing field name.

NEW QUESTION # 177

You want to connect a Tableau workbook to a dataset in a Microsoft Excel spreadsheet.

What should you do from Tableau Desktop?

- A. From the File menu select Import Workbook
- B. From the Data menu select Replace Data Source
- **C. From the Data menu select New Data Source**
- D. From the File menu select New

Answer: C

Explanation:

To connect a Tableau workbook to a dataset in a Microsoft Excel spreadsheet, you need to select New Data Source from the Data menu. This will open the Connect pane, where you can choose Microsoft Excel as your data source and browse for your spreadsheet file. You can then drag and drop your sheets or tables to join or union them in the data source page. References:

https://help.tableau.com/current/pro/desktop/en-us/connect_basic.htm https://help.tableau.com/current/pro/desktop/en-us/connect_excel.htm When connecting to a dataset in Tableau Desktop, you would go to the 'Data' menu and select 'New Data Source'. This allows you to connect to various types of data sources, including Microsoft Excel spreadsheets, where you can then select the specific file you wish to connect to.

NEW QUESTION # 178

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