VITTA Exam 3 2012

Question 7: The BIG one.

Things to discuss:

* setup
* Inputs
* Processing
* Outputs
* Formatting using conventions
* Test data

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| SS Solution* Create a workbook with multiple sheets
* First sheet for input. IMPORT all sales data from POS system with the following headings
	+ Item name
	+ Item cost
	+ Qty sold
	+ Sale date
	+ Store code
* Second sheet for reference tables
	+ Lookup table for item type
	+ Lookup table for store code with region or metro
* Third sheet for calculations
	+ Use formula COUNTIF to summarise all sold items for metro stores and regional stores
	+ SORT the result of that DESCENDING to show the best selling items for metro stores and the best selling items for regional stores
* Forth sheet for calculations (2)
	+ Use SUMIF formula to tally all sales by month FOR EACH product type
	+ [this is a two-way table: type across, and month down]
	+ In each column, the highest number will be coloured GREEN using CONDITIONAL FORMATTING
* All sheets should have CLEARLY defined headings in Arial size 20
* All tables would have borders
* All sheets (except the input sheet) would be protected to prevent unauthorised or accidental deletion of formulae
* Test data would include at least 2 months of actual sales data from at least one store from each of the metro and regional so that formulae for month grouping can be tested and the region grouping can be tested
 | RDBMS Solution* Create a DB with multiple tables
* First table (tblSales) would be used to IMPORT all the sales data from the previous year from their POS system
	+ Fields would include: txtItemName, numItemCost, numQtySold, dateSale, txtStoreCode
* Second table (tblItemTypes) would provide a linked list (one to many) for the txtItemName field in tblSales to attach an Item type
* Third table (tblStores) would provide additional details about stores such as whether they are in metro or regional, and be linked (one to many) with the txtStoreCode field in tblSales
* Create a QUERY which uses SUM() to add the sales for stores WHERE the store type is metro and SORTS the data DESCENDING. Using the SELECT TOP 10 function would further filter the results
* Create a QUERY which uses the SUM() function to tally the sales in each MONTH and GROUP BY PRODUCT TYPE

Create a REPORT from each of the QUERIES* 1. GROUP the report by Store Type, then for each type, list the top 10 selling items
	+ Report will have Headings size 16 Arial
	+ Main report text will be Arial size 12
	+ Total sales for each item will be aligned on the decimal point and a $ will appear in the column heading (not on each item)
* 2. For each product type, the month with the highest sales will appear in a table beside it.
* Test data would include at least 2 months of actual sales data from at least one store from each of the metro and regional so that formulae for month grouping can be tested and the region grouping can be tested
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