**DBAS 1001**

**Introduction to Database Management**

**Assignment # 8**

**Background:**

**The Sample Database** –

* You have been provided with a sample database called **appt\_sched\_master.accdb,** its ERD and Data Dictionary via the shared drive.
* Copy this database to your local drive, as many of your future assignments will require you to construct and save application objects, to load and manipulate data, and to run functional demonstrations using the sample database.
* Ensure you keep a regularly updated backup copy of the database along with your working copy. If you wreck your working copy, the master copy on the shared drive will not contain any of your changes.

**Retrieving Data from the Database with presentation in a Reporting Utility –**

* It may sometimes be the case that management requirements for data retrieval include editing and presentation issues that cannot be addressed by the SQL SELECT statement. For instance,
  + When presenting grouped result sets, they would like to suppress duplicates of the distinct value in the result set;
  + They would like to represent the results of summary functions performed at diverse grouping levels on the same row of output; and
  + They would like editing/presentation/output formatting features unavailable from the SQL.
* Reporting Utilities are available from a number of industry vendors. At this point in time, one of the most widely accepted products is Crystal Reports. Microsoft offers a limited but functional reporting utility called Access Reports.

**Steps in Retrieving Data from the Database with presentation in a Reporting Utility –**

1. Gather Requirements. Generally the management requesting a database-driven report will provide a sample of an existing hard copy report.
2. Design, test, and save a query to retrieve the base level of data required to construct the report.
3. Run the reporting utility and import the base query.
4. Use the utility to add any grouping levels and summary functions that are required by management.
5. Modify the layout of the report, if necessary, to add cosmetic requirements dictated by management.

**Your Work:**

1. Copy your post-assg7 version of **appt\_sched\_master.accdb** to your backup location. Rename it appropriately.
2. Consider the following report storyboard:

INSURANCE COVERAGE SUMMARY REPORT

Insurer Service NumberCovered CostCovered

GreatWest Life

Cleaning 14 7550

Extraction 5 500

Filling 10 1500

Insurer Total 9550

Canada Life

Cleaning 22 13250

Extraction 16 7250

Chat 22 25000

Insurer Total 45500

Report Total 70500

The base query needed to source data to the above report storyboard could be **pseudo coded** as follows:

SELECT p\_insurer, s\_name, SUM(as\_quantity), SUM(as\_quantity \* s\_costperunit)

FROM person, service, app\_svc, appointment

GROUP BY p\_insurer, s\_name

Design, code and test the base query using the design information from the above storyboard, the above pseudo code, and the appt\_sched\_master.accdb relationship view.

1. Use the MS Access Report Wizard to Design, Code and Test a report that meets the requirements as outlined in the above report storyboard and uses the base query you created from the pseudo code supplied above.
2. Make a memo with:
   1. Existing system – The Appointment Scheduling System Design documentation from Assg4 and the **appt\_sched\_master.accdb** from the shared drive;
   2. Requirement – to complete each of the tasks listed in the “Your Work section of this assignment;
   3. Analysis –
      1. Supply the ERD and reference the Data Dictionary;
      2. Supply the report storyboard and pseudo code from this assignment;
      3. Supply the SQL view of the base level query you created from information in i and ii above, along with an explanation of why you made the syntax choices you did; and
      4. Supply an explanation of what choices you made as you progressed through the various pages of the Report Wizard (screen shots would be nice) while constructing the report from the base level query.
   4. Recommendation – Please accept the demonstration as evidence of the per-specification functionality of the report application.
3. Demonstrate the functionality of your database report application by:
   1. Running the report;
   2. Justifying the values displayed in the report by comparing its output to data viewable in the database tables.

DBAS 1001

ASSIGNMENT EIGHT MARKING RUBRIC

|  |  |  |  |
| --- | --- | --- | --- |
| MARKING POINTS | 0 | 1 | 2 |
| Memo Format | Not used | incomplete | Complete |
| Professionalism | Illegible spelling; poor paragraph structure; poor grammar: affecting user acceptance of the finished work | Errors exist that do not affect user acceptance of finished work | Finished work has a level of professionalism acceptable to standards as negotiated with the client or his/her representative |
| Existing system details | Not present | incomplete | As applicable, enough details regarding existing system to form conclusions regarding requirements |
| Requirements | Not stated | Incomplete or inaccurate | Clear, measurable requirements for deliverables, including stage of development required i.e. design, prototype, implementation, testing |
| Analysis | Not present | Incomplete or inaccurate | complete as per the list in Assg8 Your Work Section 4c. |
|  | 0 | 1..9 | 10 |
| Recommendation | Not present | -1 point for each omission from the specs and -5 points for not matching analysis | successful demo as per specs in Assg8 Your Work Section 5. |
| Totals | 0 | 1..19 | 20 |