Tut13 - SQL Report

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# Specification

Text

Description automatically generated

# Technical design

*This is a technical language and technical diagram heavy explanation of HOW you are going to implement the specification. For a simple tutorial assignment, you want one or two appropriate diagrams or algorithms (flow chart, pseudocode, UML diagrams(level5), etc.). There are lots of little tutorials, so we don’t want something excessive for each. Over all your apps/projects we should be able to see a couple of examples of all the technical design approaches/diagrams we’ve covered. If this was a big game project however, then this would span multiple pages with descriptions of code, diagrams, pseudocode, etc.*

# Test plan

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| --- | --- | --- |
| Input/Scenario | Expected Output | Actual Output |
| “Chinook” is passed into the TablesInDatabase function | “Tables in Chinook”  Followed by a list of all tables | Tables in Chinook  albums  sqlite\_sequence  artists  customers  employees  genres  invoices  invoice\_items  media\_types  playlists  playlist\_track  tracks  sqlite\_stat1 |
| “invoices” is passed into the FieldsInTable function | “Fields in invoices”  Followed by a list of all fields in the invoices table | Fields in invoices  InvoiceId  CustomerId  InvoiceDate  BillingAddress  BillingCity  BillingState  BillingCountry  BillingPostalCode  Total |
| “Julia”, “Barnett” is passed into the CustomerInfo function | “Customer info for Julia Barnett”  Followed by a list of all the fields and values in the customers table for Julia Barnett | Customer info for Julia Barnett  Customer Info:  CustomerId: 28  FirstName: Julia  LastName: Barnett  Company: NULL  Address: 302 S 700 E  City: Salt Lake City  State: UT  Country: USA  PostalCode: 84102  Phone: +1 (801) 531-7272  Fax: NULL  Email: jubarnett@gmail.com  SupportRepId: 5 |
| “Julia”, “Barnett” is passed into the MoneySpentByCustomer function | “Money spent by Julia Barnett”  Followed by a list of all the transactions by that customer in the format “amount - date”, then a total “Final total = £” and the sum of all the listed transactions | Money spent by Julia Barnett  £1.98 - 2009-11-07 00:00:00  £13.86 - 2009-12-18 00:00:00  £8.91 - 2010-08-18 00:00:00  £1.98 - 2012-03-24 00:00:00  £3.96 - 2012-06-26 00:00:00  £11.94 - 2012-09-28 00:00:00  £0.99 - 2013-05-19 00:00:00  Final total = £43.62 |
| The MoneySpentByAllCustomers function is called | “How much each customer has been charged”  Followed by a list of the sum of every customer and their name in the format “amount - date”, then a total “Final total = £” and the sum of all the listed amounts | How much each customer has been charged  £49.62 - Helena HolÃ½  £47.62 - Richard Cunningham  £46.62 - Luis Rojas  £45.62 - Ladislav KovÃ¡cs  £45.62 - Hugh O'Reilly  £43.62 - Julia Barnett  £43.62 - Fynn Zimmermann  £43.62 - Frank Ralston  £42.62 - Victor Stevens  £42.62 - Astrid Gruber  £41.62 - Terhi HÃ¤mÃ¤lÃ¤inen  £40.62 - Isabelle Mercier  £40.62 - FrantiÅ¡ek WichterlovÃ¡  £40.62 - Johannes Van der Berg  £39.62 - JoÃ£o Fernandes  £39.62 - Jack Smith  £39.62 - Wyatt Girard  £39.62 - LuÃ­s GonÃ§alves  £39.62 - Heather Leacock  £39.62 - FranÃ§ois Tremblay  £39.62 - Dan Miller  £39.62 - BjÃ¸rn Hansen  £38.62 - Tim Goyer  £38.62 - Manoj Pareek  £38.62 - Joakim Johansson  £38.62 - Jennifer Peterson  £38.62 - Dominique Lefebvre  £38.62 - Camille Bernard  £37.62 - StanisÅ‚aw WÃ³jcik  £37.62 - Phil Hughes  £37.62 - Patrick Gray  £37.62 - Niklas SchrÃ¶der  £37.62 - Michelle Brooks  £37.62 - Martha Silk  £37.62 - Mark Taylor  £37.62 - Mark Philips  £37.62 - Marc Dubois  £37.62 - Madalena Sampaio  £37.62 - Lucas Mancini  £37.62 - Leonie KÃ¶hler  £37.62 - Kara Nielsen  £37.62 - Hannah Schneider  £37.62 - Fernanda Ramos  £37.62 - Emma Jones  £37.62 - Edward Francis  £37.62 - Eduardo Martins  £37.62 - Diego GutiÃ©rrez  £37.62 - Alexandre Rocha  £37.62 - Aaron Mitchell  £37.62 - Steve Murray  £37.62 - Roberto Almeida  £37.62 - Robert Brown  £37.62 - Kathy Chase  £37.62 - John Gordon  £37.62 - Frank Harris  £37.62 - Enrique MuÃ±oz  £37.62 - Ellie Sullivan  £37.62 - Daan Peeters  £36.64 - Puja Srivastava  Final total = £2328.60 |

# GiT commit log

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# Schedule

Estimated and actual amount of hours spent on each part of the program:

* Spec: Provided, 0
* Design: Estimated 0.5, Actual 0.25
* Implement: Estimated 0.5, Actual 0.75
* Debug and test: Estimated 0.25, Actual 0.25
* Slack: Estimated 0.25, Actual 0
* Total: Estimated 1.5, Actual 1.25

This was completed ahead of schedule, I’m very happy with the outcome.