

DBD621_SA

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Due Jun 14 by 11:59pm **Points** 685 **Submitting** a file upload
Available May 27 at 12am - Jun 14 at 11:59pm 19 days

Your company has tasked you with handling a new client and creating a Database in accordance to their requirements.

The Client has specified and provided the following information:

Company Name: CTU Comics Solutions

Founder: Peter Parker

Founded: June 2016

CTU Comic Solutions is a comic book distribution Centre that sells comic Books to comics stores all across South-Africa

Stores Located in:

- ☐ Bloemfontein
- ☐ Boksburg
- ☐ Durban
- ☐ Port Elizabeth
- ☐ Polokwane
- ☐ Vereeniging
- ☐ Potchefstroom
- ☐ Cape-Town
- ☐ Pretoria
- ☐ Auckland Park
- ☐ Roodepoort
- ☐ Nelspruit
- ☐ Stellenbosch

The Client has requested that you create a database containing the following:

- Database should be called ComicsDB
- Users table
- o ID Number

- **User Name (to be displayed on the site)**
- **User Email Address**
- **User Full Name**
- **Password**
- **Date Account Was Created**
- **Closest branch**
- **Staff table**
- **EMPNO**
- **FIRSTNME**
- **LASTNAME**
- **Branch**
- **PHONENO**
- **HIREDATE**
- **JOB Description**
- **Gender**
- **BIRTHDATE**
- **SALARY**
- **Comics table**
- **Comics' Name**
- **Comics' Author**
- **Comics' Description**
- **Comics' Issue**
- **Comics' publisher**
- **Comics' Cover page**
- **History tables(Containing records older than 2 months)**
- **These tables are copies of all other tables in the database that keeps record of all deleted files**
- **Must contain a Date Deleted**
- **Must contain Who deleted the entry**
- **Sales table**
- **Sales Date**
- **Quantity**

- o **Price before tax**
- o **Price after tax(15% Tax)**
- o **The sold item**

Your Company has also added the following details in order to add functionality and structure to the Project

- o **Database should be in 3rd Normal Form**
- o **Create Schemas for each region in order to keep the data separate**
- o **Each table created needs at least 10 rows of Dummy data**
- o **Create one view that will show the total sales of all the regions (Make use of UNION and or UNION ALL)**
- o **Make use of built-in aggregate functions to calculate totals**
- o **Make use of system functions for Date determination**
- o **Create a View that will show how many customers there are in each region**
- o **Create stored procedures for Inserting ,Updating and Deleting data in your tables**
- o **Make use of triggers to move data to the history table**
- o **Implement TRY...CATCH error handling**
- o **Generate error messages with THROW and RAISERROR according to what is caught in the TRY...CATCH statement**
- o **Create a Planning and Testing Manual to document your work**

**Total
Marks Marks Moderated**

685 0 0

The database is named as required

4

All Schemas where created as required (2 Marks for Each Schema)	26
All Tables where created as required.	
(4 mark for each table with its primary key column)	260
(5 tables * 13 Schemas)	
Correct Data type was used for each table column	20
Database is in 3 rd Normal Form	20
Dummy Data was Inserted for every table	15
Created one view that will show the total sales	15
Functions were used to calculate totals	15
Created a View that will show how many customers there are in each region	15
Create stored procedures for Inserting, updating and Deleting data in your tables	
(3 Marks per Table)(1 Mark per stored procedure)	195
(5 Tables *13 Schemas = 65 tables total)	
Created triggers on Deleting of data and moving it to the history table	65
(1 Mark for each table)	
Made use of Try. Catch	15
Testing Manual is created as requested	
Proper Report Documentation Format used (Cover page , Index , Introduction ,Body and Conclusion)	10
Planning Manual is created as requested	
Proper Report Documentation Format used (Cover page , Index , Introduction ,Body and Conclusion)	10
Total:	685

Some Rubric (1)		
Criteria	Ratings	Pts
The database is named as required		4.0 pts
All Schemas where created as required (2 Marks for Each Schema)		26.0 pts
All Tables where created as required. (4 mark for each table with its primary key column) (5 tables * 13 Schemas)		260.0 pts
Correct Data type was used for each table column		20.0 pts
Database is in 3rd Normal Form		20.0 pts
Dummy Data was Inserted for every table		15.0 pts
Created one view that will show the total sales		15.0 pts
Functions were used to calculate totals		15.0 pts
Created a View that will show how many customers there are in each region		15.0 pts
Create stored procedures for Inserting, updating and Deleting data in your tables (3 Marks per Table)(1 Mark per stored procedure) (5 Tables *13 Schemas = 65 tables total)		195.0 pts
Created triggers on Deleting of data and moving it to the history table (1 Mark for each table)		65.0 pts
Made use of Try. Catch		15.0 pts
Testing Manual is created as requested Proper Report Documentation Format used (Cover page , Index , Introduction ,Body and Conclusion)		10.0 pts
Description of criterion		10.0 pts
Total Points: 685.0		