



MTS CERTIFICATION

Business Intelligence Programming Certificate

BTC Member, US Based Company of African Diaspora Marketplace

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BIPC- 2017-03

MTS –BIPC I

SQLAC BI

3 Hours

Business Intelligence Programming Certificate

SQL Accounts Business Intelligence

Exam ID: 2017-01

3 Hours

Instructions

Answer five questions including question 1

You are reminded of the importance of clarity of expression and orderly presentation of the codes.

You can use any of the following SQL Engines/Applications:

- Oracle SQL
- MS SQL Server
- PowerEngine / BTC ERP
- MySQL
- PL/SQL Developer

NB: Make sure you state the type of engine or applications that can interpret / compile your SQL Scripts. One hour extra is allocated to online students for downloading questions, and attaching answers and send. Answers should be in Microsoft Word documents

Question 1

You have just been employed by one the Telecom companies in your country and the table is mailed to you by your boss.

IN_CDR

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Startdate	ANO	BNO	Cost	Ded_Accused	Duration	Teleservicecode
1/1/2012 10:02:10	0266000850	0276000550	5		421	0
1/2/2012 14:02:10	0266000895	0206000850	2		128	7
1/4/2012 10:02:10	0266000400	0266000660	3		352	4

Required:

1. Write codes that will create the IN_CDR table
2. Write the codes insert the records into the two tables
3. Write SQL Code that creates a view of prepaid voice onnet unique subscriber's daily activity. The report should have the following fields: Rptdate, MSISDN, Onnet_MOU, Onnet_Rev and Onnet_count

Question 2

You are to create the following users: Jeremia and Joseph.

Jeremia is to be granted the (DBA, Resource, Connect, Create Session, Create View, Create Table) while Joseph will be granted only (Resource, Create Session and Connect). The password for Jeremia is Jer123 and Joseph password is jos345

Required:

1. Write the code to create the two users.
2. Write another code to alter Jeremia password to J224

Question 3

Write short notes on the following functions and how they are used to manage Telecom Business Operations:

1. Substr
2. Lower
3. Upper
4. Initcap
5. Trim
6. To_Date
7. To_Number
8. Length
9. Sum
10. Avg

Question 4

To implement an ERP system, you must create the groups and sub groups. The following tables contain the groups and subgroups created in a typical ERP Application

ERP_GROUPS

	LocID	LocName	LocSubID	LocSubName
▶	WS06	EXPENSES	WS0601	ADMIN
	WS06	EXPENSES	WS0602	SELLING
	WS06	EXPENSES	WS0603	FINANCE
	WS06	EXPENSES	WS0604	PETTYCASH

ERP_ACCOUNTS

Code	Description	OpBal
6010001	RENT	0
6010002	WAGE	0
6010003	SALARY	0
6010004	ELECTRICITY	0
6010005	WATER	0
6010006	PRINTING	0
6010007	PAPERS	0
6010007	TRANSPORTS	0
6010009	PHOTOCOPY	0

1. Create the two tables using Oracle SQL Code
2. Create a primary key on the LocSubID of the ERP_GROUPS and the another primary key on the Code of the ERP_ACCOUNTS
3. Update WAGE to WAGES AND SALARIES in the table ERP_ACCOUNTS
4. Delete the group PETTYCASH in the ERP_GROUPS

Question 5

You have been employed to implement an ERP for QUACKER INC. the following groups and accounts have been given to you

BUSINESS PARTNERS
CUSTOMERS
SUPPLIERS
STARTUP FUNDS
CAPITAL
LOANS
FIXED ASSETS
LANDS AND BUILDINGS
STOCKS
ELECTRONICS
NETWORK PRODUCTS

The accounts are the following: Shareholder Quacker, Bank of New York, Samson TV, CAT 5 Network Cable, New York Building, Customer GORDON

You are required to

1. Organize the Accounts classes (BUSINESS PARTNERS, STARTUP FUNDS, FIXED ASSETS, and STOCKS) and give them the ERP Codes.
2. Create ERP codes for each of the Groups under the ERP Classes , then arrange their accounts under each of them with the account code

Question 6

You have just been employed by CENTURIES INDUSTRIES LTD were given the following details in order to create a dashboard interfaced with their oracle production database:

Username: cent
Password: cent123
Database: CENDB
HOSTNAME <http://192.168.1.131:88>

SQL Code: Select ProductName, GoodNos, GoodNosWt, RejNos, RejNosWt, Target TotalProduction from ProductionDatabank

1. Write the Connection code that will bind Oracle database to PHP form using Zend Cord for Oracle
2. Write the code that will parse the SQL Code in PHP using Zend Core for Oracle in order to display the records in the table
3. Calculate the Rate of Quality Production using SQL Select Statement
4. Calculate the Machine Efficiency using GoodNos and Target using Select Statement

Question 7

The main components of the Structured Query Language are DDL, DML and DCL. List and illustrate with code two example of each of these components