



Missionsoft Testing Service

International IT Examinations Council
For Database Programmers, Systems Developers,
MIS Engineers and ICT Professionals

MISCERT0011-APR 2012

MTS II-TEL MIS ENG

TELECOM DBA 2

3 Hours

Missionsoft Testing Service

Level 2

MTS Certified Telecom MIS Engineers

Telecom Database Administration 2

April 2012

3 Hours

Instructions

Answer one question from each section

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 (VB SQL)
- 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 from section A carries 60 marks and section B question carries 40 marks

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

ADJUSTMENTS_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

SECTION A

Answer one question from this section.

Question 1

Write the SQL Statements for each of the requests below. The fields or templates have been provided to guide you.

Request 1 Write SQL Code that creates a view of prepaid voice on net unique subscriber's daily activity. The report should look have the following fields: Rptdate, MSISDN, Onnet_MOU, Onnet_Rev and Onnet_count

Request 2 Write SQL Code that creates a view of postpaid voice off net unique subscriber's daily activity. The report should look have the following fields: Rptdate, MSISDN, offnet_MOU, offnet_Rev and offnet_count

Request 3 Write SQL Code that creates a view of prepaid SMS Onnet unique subscriber's daily activity. The report should look have the following fields: Rptdate, MSISDN, offnet_Rev and offnet_count

Request 4 Write SQL Code that creates a view of Data unique subscriber's daily activity at the Peak time which is between 0600 to 2159. The report should look have the following fields: Rptdate, MSISDN, DataPeak_Rev and DataPeak_count

Request 5 Write SQL Code that creates a view of Airtel Money unique subscriber's daily activity at the off Peak time which is between 2200 to 2359. The report should look have the following fields: Rptdate, MSISDN, AT_Money_OffPeak_Rev and AT_Money_OffPeak_count

NB: AIRTEL GHANA is considered for case study. The candidate must consider himself as working for Airtel.

Question 2

Write the SQL Statements to produce the report below: Unique Subscribers Voice Daily Activity

		VOICE ON NET			VOICE OFF NET			VOICE INTERNATL		
rptdate	MSISDN	MOU	Count	REV	MOU	Count	REV	MOU	Count	REV

Question 3

Write the SQL Statements to produce the report below: Unique Subscribers Data Daily Activity

		Data Peak			Data Off Peak			Data Late Night		
rptdate	MSISDN	MOU	Count	REV	MOU	Count	REV	MOU	Count	REV

SECTION B

Answer one question from this section.

Question 1

- 1) Explain the procedure below, stating the control structure used, type of calls being loaded by the procedure and every statement in the procedure

```
create or replace procedure Procl AS
vdate date;
x number;
begin
execute immediate 'truncate table procl_tab';
for x in 1..30
loop
    vdate := to_char(sysdate-x,'dd-mon-yyyy');

    INSERT INTO procl_tab
    select trunc(startdate) rptdate,
    ANO as MSISDN,
    sum(DURATION/60) AS MOU,
    sum(cost) as REV,
    count(*) as callcount
    from voice_cdr
    where
    (
    Teleservicecode in ('0','7') and dedicatedaccused is null and length
(BNO)=10 and
    ANO like '026%' and (BNO like '026%' or BNO like '03_7%')
    or
    ANO like '03_7%' and (BNO like '026%' or BNO like '03_7%')
    )
    and trunc(startdate) = trunc(sysdate-x)

    group by trunc(startdate), ANO;

    commit;

end loop;
end;
```

Question 2

- 2) Explain the procedure below, stating the control structure used, type of calls being

loaded by the procedure and every statement in the procedure

```
create or replace procedure proc2 as
vdate date;
x number;

begin
execute immediate 'truncate table proc2_tab';
x:=0;
while x < 7
loop
x := x+1;
    vdate := to_char(sysdate-x,'dd-mon-yyyy');

    INSERT INTO PROC2_TAB
    select trunc(startdate) rptdate,
    ANO as MSISDN,
    sum(DURATION/60) AS MOU,
    sum (cost) as REV,
    count(*) as callcount
    from voice_cdr
    where
    (
    Teleservicecode in ('0','7') and dedicatedaccused is not null and
length (BNO)=10 and
    ANO like '026%' and (BNO like '026%' or BNO like '03_7%')
    or
    ANO like '03_7%' and (BNO like '026%' or BNO like '03_7%')
    )
    and trunc(startdate) = trunc(sysdate-x)

    group by trunc(startdate), ANO;

    commit;

end loop;
end;
```