



# Missionsoft Testing Service

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

**MISCERT0011-APR 2012**  
**MTS II-ERP MIS ENG**  
**ERP DBA 2**  
**3 Hours**

## Missionsoft Testing Service

Level 2

# MTS Certified ERP MIS Engineers

## ERP 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

## Attendance

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Attdate	EmpID	Time_IN	Time_Out
01-01-2010	001	06:20	18:30
02-01-2010	001	07:30	18:25
03-01-2010	001	06:15	19:14
04-01-2010	001	07:30	18:25
01-01-2010	002	06:28	18:10
03-01-2010	002	06:05	19:15
04-01-2010	002	07:10	18:20

## Employees

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EmpID	Emp_name	DailyRate	OffDay	Weekly_holiday
001	James Brown	36	6	7
002	Gordon Lindsay	47	2	3

## SECTION A

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**Answer one question from this section. You will be using the two tables above**

### 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 the code to create the table Attendance and employees; and code that will insert these records in each of them

**Request 2** create a view that will transform attendance table to display this report and save the view as **V\_attend**

attdate	Empid	Time_In_hrs	Time_In_Mins	Time_Out_Hrs	Time_Out_Mins
01-01-2010	001	06	20	18	30
02-01-2010	001	07	30	18	25
01-01-2010	001	06	15	19	14
02-01-2010	001	07	30	18	25
01-01-2010	002	06	28	18:	10
03-01-2010	002	06	05	19	15
04-01-2010	002	07	10	18	20

**Request 3** Create a view that will display this report. The view should be called: **V\_attendance**

Attdate	Empid	TI_hrs	TI_Mins	TO_Hrs	TO_Mins	Total_Hrs	Total_Mins
01-01-2010	001	06	20	18	30	12	10
02-01-2010	001	07	30	18	25	11	-5
01-01-2010	001	06	15	19	14	13	-1
02-01-2010	001	07	30	18	25	11	-5
01-01-2010	002	06	28	18	10	12	-18

03-01-2010	002	06	05	19	15	13	10
04-01-2010	002	07	10	18	20	11	10

**Request 4**                      **Create a view that will display this report. The view should be called: NberofDays**

EmpID	NberOfDays	TotalHrs	TotalMins
001	4	47	-1
002	3	36	2

**Request 5**                      **Create a view that will display this report. The view should be called: NormalHrs**

EmpID	NberOfDays	NormalHrs	Totalhrs	TotalMins
002	3	24	36	2
001	4	32	47	-1

**Request 6**                      **Create a view that will display this report. The view should be called: NormalOvertimeHrs**

EmpID	NberOfDays	Totalhrs	TotalMins	NormalHrs	NormalOvertimeHrs
002	3	36	2	24	12.033
001	4	47	-1	32	14.98

**Request 7**                      **Join emp\_name and Dailyrate to NormalOvertimeHrs and calculate the HourlyRate. The view name is: HourlyRate**

Your view should have the following fields

empid, empname, dailyrate, hourlyrate, NberOfDays, normalhrs, totalhrs, totalmins, normalovhrs

**Request 7**                      **Use the HourlyRate view to calculate the NormalPay and NormalOvertimePay. All fields in HourlyRate in addition with these two fields**

Your view should have the following fields:

empid, empname, dailyrate, hourlyrate, NberOfDays, normalhrs, totalhrs, totalmins, normalovhrs, NormalPay, NormalOvertimePay

## Question 2

Request 1:                      Find the off day attendance records of the two employees

Request 3:                      Write a set of views to calculate the offday pay. The report looks like the template below:

EmpID	Name	OffDays	dailyRate	Hourlyrate	ActTotalHrs	OffDayPay
002	Gordon Lindsay	2	47.00	5.875	22.86	134.34
001	James Brown	2	36.00	4.5	23.08	103.87

### Question 3

- Request 2: Find the Weekly holiday attendance records of the two employees (Sundays Attendance)  
Request 3: Write a set of codes to calculate the Sundays pay (or weekly holiday pay). The report looks like the template below:

EmpID	Name	SundaysDays	dailyRate	Hourlyrate	ActTotalHrs	SundaysPay
002	Gordon Lindsay	2	47.00	5.875	22.86	134.34
001	James Brown	2	36.00	4.5	23.08	103.87

### Question 4

#### Yearly\_Holiday

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YHDate	Description
01/01/2011	New Year
03/06/2011	Independence
05/01/2011	May Day
25/05/2011	AU Day
14/04/2011	Easter Friday
17/04/2011	Easter Sunday
31/07/2011	Eid Fitr
31/08/2011	Eid Alda
21/09/2011	Founders Day
12/02/2011	Farmers Day
25/12/2011	X mas Day
26/12/2011	Boxing Day

- Request 1: Create the Yearly\_Holiday table and insert the holidays  
Request 2: Extract the yearly holidays attendance using the Yearly\_Holiday table and Attendance table  
Request 3: Write a set of codes to calculate the Yearly\_Holiday pay . The report looks like the template below:

EmpID	Name	YholiDays	DailyRate	Hourlyrate	ActTotalHrs	Yearly_holiday_Pay
002	Gordon Lindsay	1	47.00	5.87	11.7	68.73
001	James Brown	1	36.00	4.5	12.16	54.75

## SECTION B

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Answer one question from this section.

### Question 1

- 1) Write a procedure using cursor. Your cursor should be named as emp\_cur and your record variable emp\_rec. Create a table called absenteeism with two fields (Empid, absdate). The cursor will load all employees who are absent (that is not in the attendance table) and insert them into the absenteeism table with the system date.

## Question 2

Explain the procedure below including all statements and keywords

```
CREATE OR REPLACE PROCEDURE Load_ab_Emp AS
countrows number;
BEGIN
  Insert into absent
  Select trunc(sysdate), Empid
  from employees
  where empid not in
  (
  select empid from attendance where attdate = trunc(sysdate));

  if SQL%FOUND then
    countrows := SQL%ROWCOUNT;
    commit;
    insert into totalabsent select trunc(sysdate), countrows from dual;
    commit;
  elsif SQL%NOTFOUND then
    rollback;
  end if;
End;
```