



ILP PROGRAM - ORACLE APPLICATIONS

Tata Consultancy Services Case Study Study Guide

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How to use this manual



Video1: Script: Vid1-Introduction to the chapter and its content – Face recording.

This video will introduce the material covered in this pdf, the goals,

1. How this document is organized
2. What is the purpose of this document
3. What will you achieve after going through the document and related videos
4. How to read this document
5. How does it relate to the work you will be doing on real project
6. Reference to other reading materials for further references

This manual has been organized as a step by step guide to teach how to create reports using Oracle Developer Suite 10G. The target audience is new comes to Oracle Developer suite. It assumes that the reader has basic knowledge of Oracle concepts and PL/SQL. After completing this course, you will be able to create variety of reports using Oracle Developer Suite 10G.

This manual is organized to be read in a serial fashion and follow the instructions given in the document as it is. Practical examples are given in each section to guide you through every step. The tables referred here are common (shared) tables used by different batches, so care should be taken not to delete or update the rows which does not belong to you, this may create problem for the other batches. At the end of the course, you should delete the data you have created.

There are several symbols used to designate particular sections, which are described below:



- Describes the purpose of the section.



- Notes relevant to the section above



- This denotes the task to be completed by the audience on his own PC. The layout of the output has to be followed as it is. For any confusion, the faculty should be contacted.

Introduction:

ABC Limited is a manufacturer of various office supplies with operations over the globe. It has been operating for past 20 years, and have been using various home grown software packages to cater for its IT needs.

TCS has banned the contract to implemented Oracle Applications 12.1.3 for streamlining its operations. TCS Analysts has performed a Gap analysis during feasibility study and found that the Invoice Workbench in built within Oracle Applications does not suit company's need and the company wants to develop a separate invoice management module.



TCS has tagged this activity as a small sub project named 'Custom Invoice Management System', and has given an estimate of 25 person days to develop the module. Client has put following specification:

1. The module should be accessible through a custom responsibility
2. Need interfaces to load data from flat files produced by our legacy system
3. There will be errors in the flat file data, so after the import, the error out records should be visible and editable, so that it can be reimported after rectification
4. We want a custom form, which will allow us to enter a new invoice directly, and see the imported invoices. The form should also allow to Approve the invoices, and create hold , If:
 - The quantity of an item supplied by the vendor is different from the ordered quantity on the Purchase Order (PO)
 - If the net price of the Invoice is different from the PO amount.
5. The release on a 'On Hold' Invoice can be released with a release button, but on pressing the button, a password will be asked, only Procurement Manager will have the password, and upon supplying the password, a popup will appear, which will capture the justification for releasing the hold. Once the hold is released, the invoice can be paid as usual.
6. There should be a button on the form, which will light up, if the invoice is on Hold, else it will be green.
7. I want to keep watch of my top vendors, so that I can negotiate for discount. So I want a report which will give me a report of monthly payment made to each of my vendors in a matrix format. I should be able to generate the report for a particular year or a range of years. I also want to
8. I am using Electronic Fund Transfer (EFT) to pay my vendors, So, I should be able to generate the payment file for the invoice, once it is approved. This file will go to my Bank, and they will make the payment as per the file. My Bank needs to payment file to be in a specified format, which I will provide you.
9. We also want the user manual and Design Document for the module.

You are supposed to create a team of 5 developers with one acting as a Project Manager (PM) to execute the project. The PM should prepare a Project Plan and send daily progress report. The format of the project plan will be as follows:

Project Name: Development of InvoiceManagemnt System for ABC Ltd.

Team Name: Team – F
Project Manager: Mr/Mis xxx

Sr No	Activity	Component Name	1 Sep				2 Sep				3 Sep				4 Sep			
			Day1- Monday				Day2- Tue				Day3- Wed				Day4- Thu			
			S1	S2	S3	S4	S1	S2	S3	S4	S1	S2	S3	S4	S1	S2	S3	S4
1	Develop Interface	1. XXIMP_STG.sql - Import Invoice Data from Legacy to Staging Table – PL/SQL																
		Unit Test																
2	Develop Interface 1	2. XXIMP_CORE.sql - Import Invoice data from Staging to Core Table																
		Unit Test																
3	Develop Form	3. XXPMT_MAT.rdf - Generate Supplier wise Payment Matrix Report																
		Unit Test																
4	Develop Form	4. XXINV_ENTRY.fmb - Enter and maintain Invoices																
		Unit Test																
5	Develop Report	5. XXPMT_PAT.sql - Generate Payment file																
6	AOL Registration	Define Custom Menu																
		Register 5 modules in the menu																
		Register 5 programs in Oracle Applications																
7	Intergation Test																	
8	Create Documentation	Design Document (MD60 and MD70)																
		User manual																
9	UAT																	
	Production Cutover																	

The xls format of the template is available with faculty.

Technical Specification

The Transaction Form

The screenshot displays the 'INVOICE MANAGEMENT SYSTEM' form. The header section includes fields for 'Invoice No', 'Invoice Amt', 'Vendor ID', 'Vendor Site ID', 'Invoice Date', and 'PO No'. The 'On Hold' status is indicated by a red circle. The 'DETAIL' section shows a table with columns: 'Item Sr No', 'Item Name', 'Unit Price', 'Quantity', 'Price(ex tax)', 'Tax', and 'Net Price'. At the bottom, there are buttons for 'Save', 'Approve', and 'Release Hold', followed by a 'Total' row. Annotations on the right side of the form identify the 'Invoice Header Table (XXINV_HDR)' and the 'InvoiceLines Table (XXINV_LINES)' as the underlying database tables for the header and detail sections, respectively. Arrows point from the table names to the corresponding data areas in the form.

INVOICE MANAGEMENT SYSTEM TCS/AHD09/<EmpNO> Date: dd/mm/yyyy

INVOICE HEADER On Hold : ●

Invoice No	Invoice Amt	Vendor ID	Vendor Site ID	Invoice Date	PO No

Scroll Bar

BASE TABLE

Invoice Header Table (XXINV_HDR)

INVOICE DETAIL for Invoice No : < Invoice No>

Item Sr No	Item Name	Unit Price	Quantity	Price(ex tax)	Tax	Net Price

Scroll Bar

BASE TABLE

InvoiceLines Table (XXINV_LINES)

Save Approve Release Hold

Total

Behavior of forms Buttons

1. A user enters an invoice in the Invoice ID field, and pressed tab. Form will check if this invoice already exists, if exist, it will pull out the details of the invoice, and populate the header and the detail block. The invoice no will be displayed in the heading of the detail block where <Invoice No> is written. Depending on the STATUS_FLAG of the invoice, the here buttons – Save, Approve and release Hold will be enabled or disabled.

Status Flag	Save	Approve	Release Hold	Pay	Comment
N					New Invoice
A					Approved Invoice
H					On Hold
P					Paid
R					Hold released

User can enter multiple invoices in he top block, however, the bottom block will display the line details of the invoice where user's cursor is placed in the top block.

1. If the entered invoice does not exist in the system, user can navigate to other fields using tab or mouse

Menu and Program specification- Pictorial View

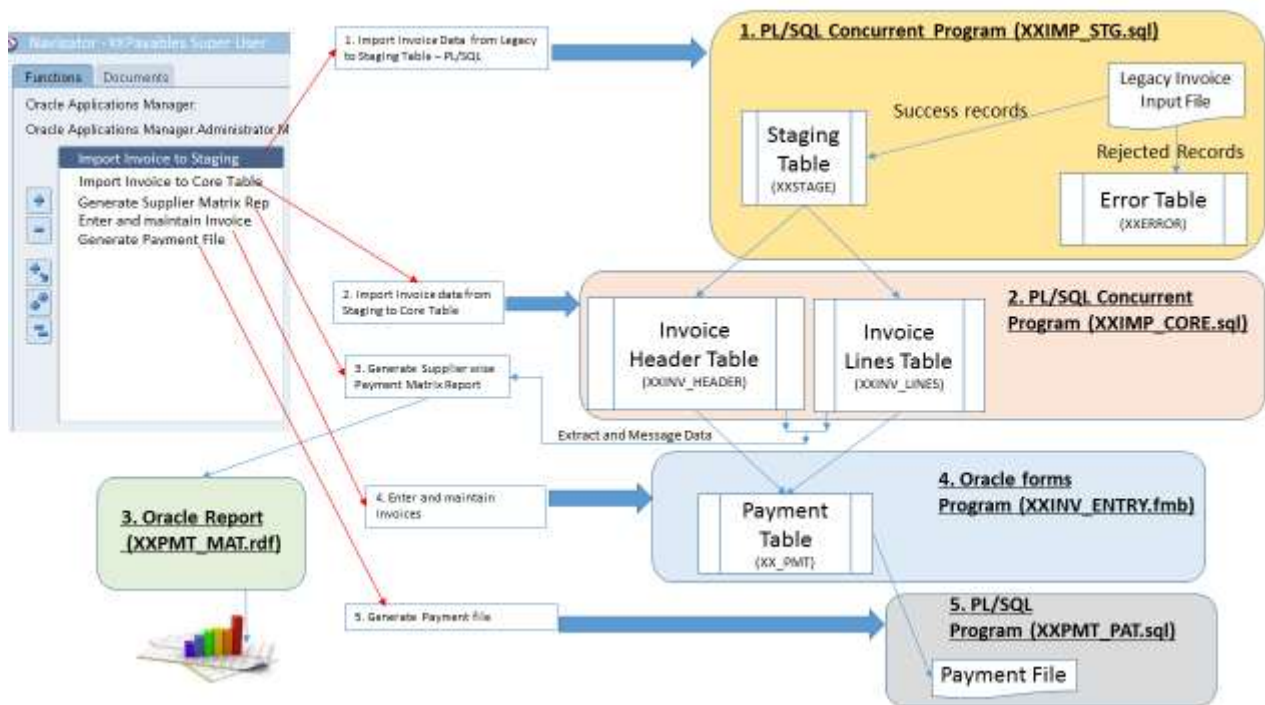
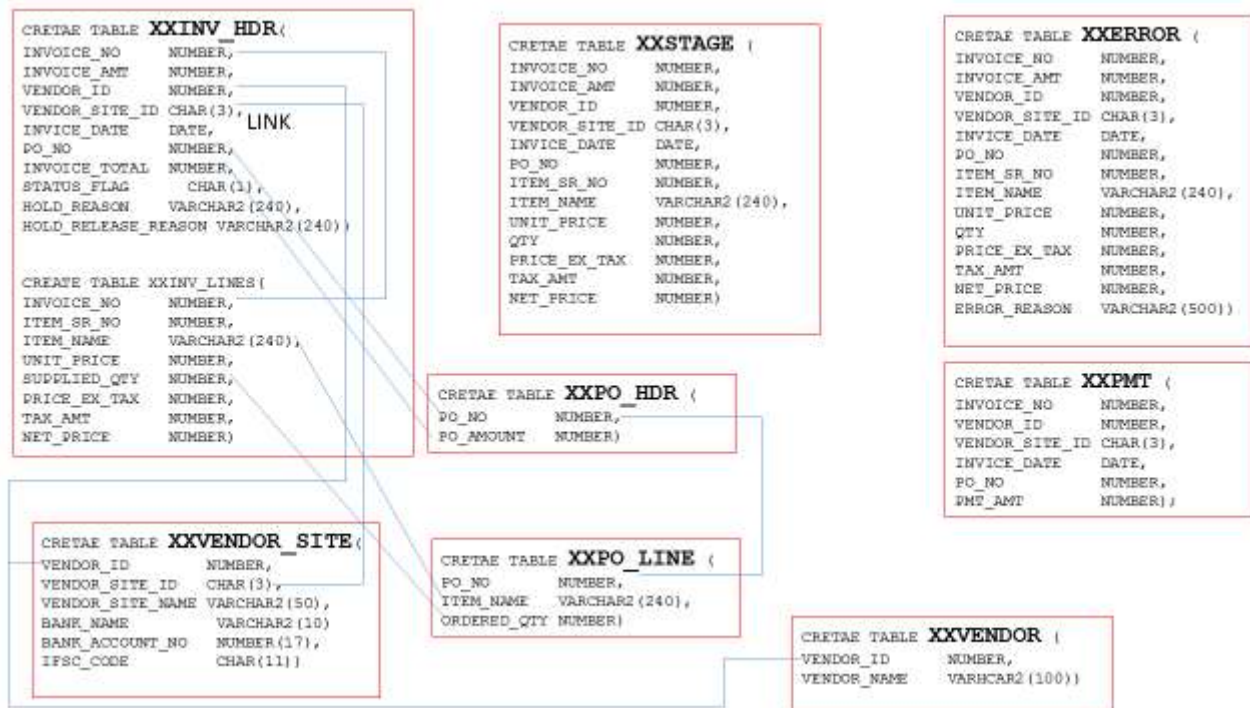


Table Structure and ERD



Report Layout Format

Vendor	Monthly Payment Matrix												Payment Total
	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	
Paul	20		20							20			23657.60
Peter													97836.00
Mac													8373.89
Harry		20				20						20	3737.00
Total	20	20	20	20		20	20	20	20				