**Table script**

1. **Creating author\_imt table**

CREATE TABLE author\_imt(

AID NUMBER PRIMARY KEY,

ANAME VARCHAR2(20),

GENDER VARCHAR2(6),

BIRTHDATE DATE,

MOTHER\_TONGUE VARCHAR2(13));

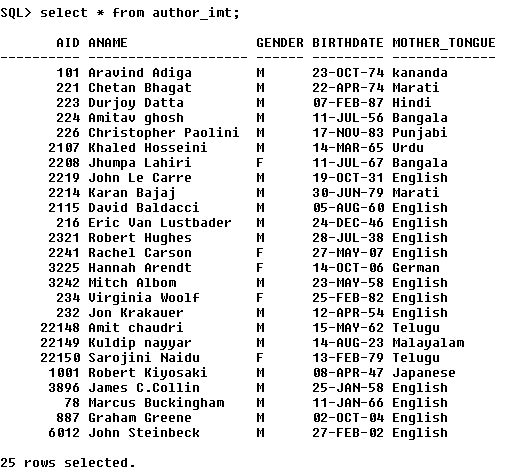
Table Name: author\_imt

Data File: author\_imt

Control File: author\_imt

Request Id: 5529717





1. **Creating book\_imt.dat file (dummy table)**

CREATE TABLE book\_imt

( BOOK\_NAME VARCHAR2(40),

AID NUMBER REFERENCES AUTHOR\_IMT(AID),

ISBN\_NO NUMBER UNIQUE,

PAGES NUMBER,

COST NUMBER,

PUBLISH\_DATE DATE,

BOOK\_TYPE VARCHAR2(12)

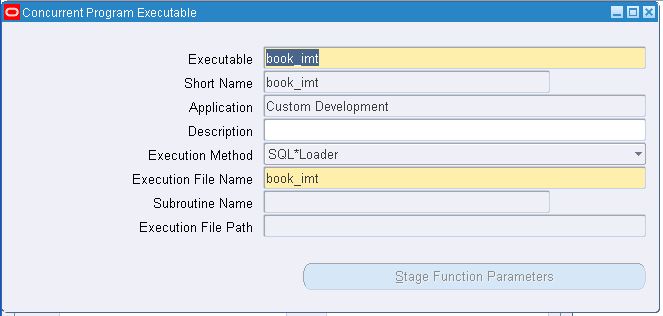
);

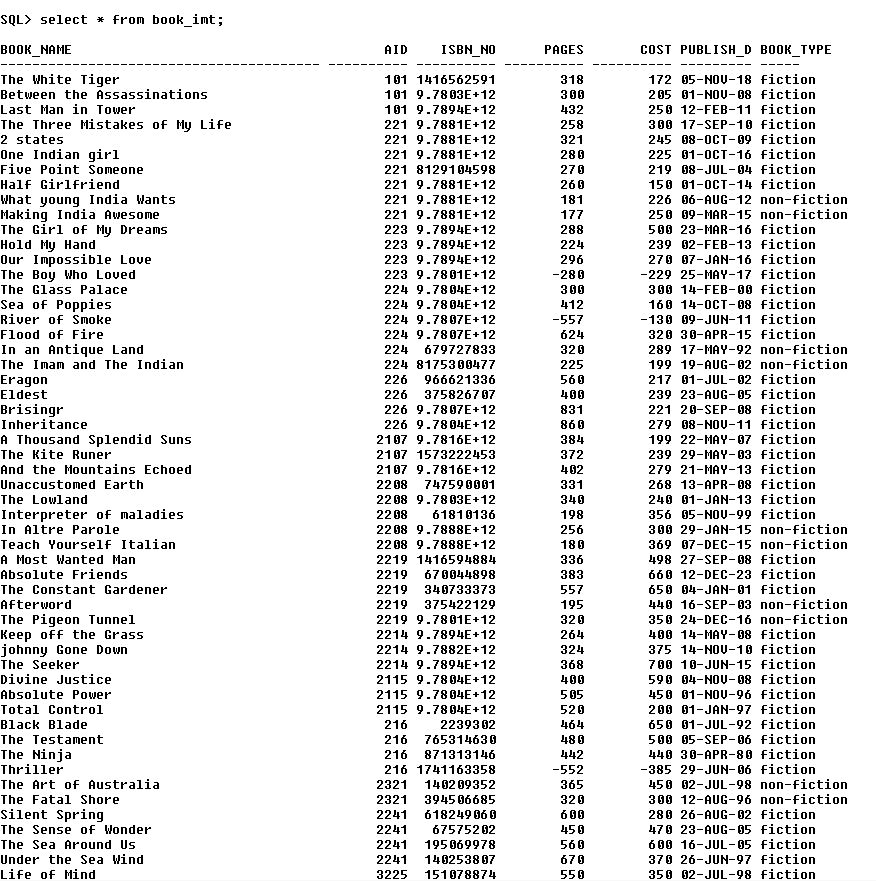
Table Name :book\_imt

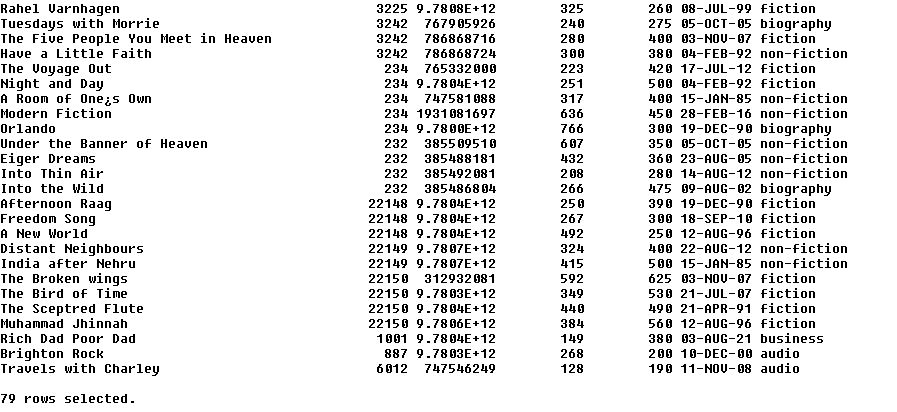
Data File :book\_imt

Control File :book\_imt

Request Id :5529718







1. **Book master table - book\_master\_imt**

create table book\_master\_imt

( book\_id number,

book\_namevarchar2(50),

author\_id number,

isbn\_no number,

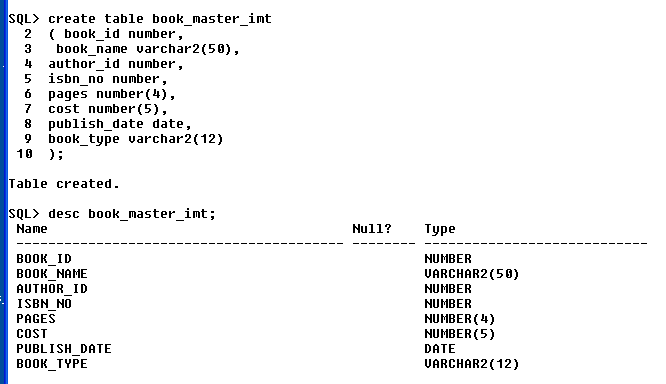
pages number(4),

cost number(5),

publish\_date date,

book\_typevarchar2(12)

);



1. **Sequence for book\_id - b\_id**

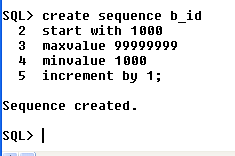
create sequence b\_id

start with 1000

maxvalue 99999999

minvalue 1000

increment by 1;



1. **Package body and spec created**

**Package name -book\_master\_pimt**

**Request Id :5529771**

**Package specification Coding :**

create or replace package book\_master\_pimt

is

procedureloadtable (errbuf out varchar2, retcode out number);

functionvalidate\_author\_id ( id number) return boolean;

functionvalidate\_isbn (isbn number) return boolean;

functionvalidate\_pubdate(pub\_date in out date) return date ;

functionvalidate\_type(b\_type varchar2) return boolean;

end book\_master\_pimt;

/

**Package body Coding:**

create or replace package body book\_master\_pimt

is

procedureloadtable (errbuf out varchar2, retcode out number)

is

cursor c1 is select BOOK\_NAME,AID ,ISBN\_NO ,PAGES ,COST,PUBLISH\_DATE,BOOK\_TYPE from book\_imt;

bookbook\_imt.book\_name%type ;

idbook\_imt.aid%type ;

isbnbook\_imt.isbn\_no%type;

pagebook\_imt.pages%type;

ratebook\_imt.cost%type;

pub\_datebook\_imt.publish\_date%type;

b\_typebook\_imt.book\_type%type;

BEGIN

open c1;

loop

fetch c1 into book,id,isbn,page,rate,pub\_date,b\_type;

exit when c1%notfound;

if(validate\_author\_id(id)) then

if(validate\_isbn(isbn)) then

if(page > 0 and rate > 0) then

pub\_date := validate\_pubdate(pub\_date);

if(validate\_type(b\_type)) then

insert into book\_master\_imt(book\_id,book\_name,author\_id,isbn\_no,pages,cost,publish\_date,book\_type)

values(b\_id.nextval,book,id,isbn,page,rate,pub\_date,b\_type) ;

end if;

end if;

end if;

end if;

end loop;

close c1;

endloadtable;

functionvalidate\_author\_id ( id number) return boolean is

ctr number;

BEGIN

select count(aid) into ctr from author\_imt where id=aid;

if(ctr>= 1) then

return true;

else

return false;

end if;

endvalidate\_author\_id;

functionvalidate\_isbn (isbn number) return boolean is

ctr number;

BEGIN

select count(\*) into ctr from book\_master\_imt where isbn\_no = isbn;

if(ctr = 0) then

return true;

else

return false;

end if;

endvalidate\_isbn;

functionvalidate\_pubdate(pub\_date in out date) return date is

BEGIN

if(pub\_date>sysdate ) then

returnsysdate;

else

returnpub\_date;

end if;

endvalidate\_pubdate;

functionvalidate\_type(b\_type varchar2) return boolean is

BEGIN

if(b\_type = 'fiction' or b\_type ='non-fiction' or b\_type = 'business' or b\_type = 'audio') then

return true;

else

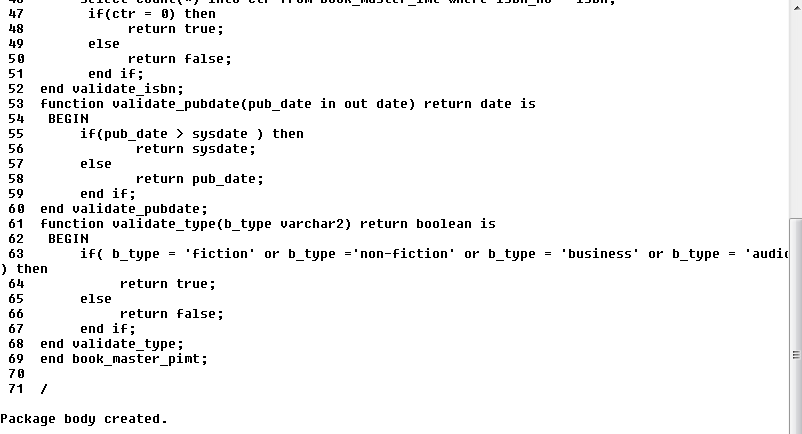
return false;

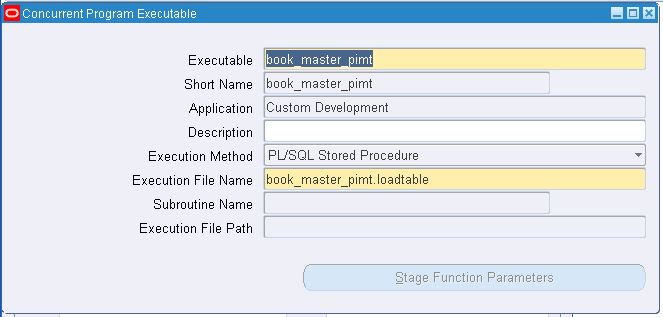
end if;

endvalidate\_type;

end book\_master\_pimt;

/



****