

Flat No. 201, II Floor, Abhilash Towers, BK Guda, Hyderabad – 500 038 Ph No. 040 23710047, Mobile: 9985798869, WhatsApp:9985798869

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```
SOL> cl scr
SOL> CREATE TABLE Students
  3
    Studid
                  NUMBER (6)
  4
   CONSTRAINT StudIDPK PRIMARY KEY,
  5 SName VARCHAR2(30),
   Street
                VARCHAR2(40),
  6
    CityName VARCHAR2(25),
  7
   StateName VARCHAR2(40),
 9
    Pincode
                NUMBER(6)
 10);
Table created.
SQL> BEGIN
  2 INSERT INTO Students
  3 VALUES(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001);
 4 INSERT INTO Students
  5 VALUES (1201, 'SRINIVAS', 'SHYAM NAGAR',
                                       'SECUNDERABAD', 'ANDHRA
PRADESH', 506002);
  6 INSERT INTO Students
 7 VALUES (1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',
606060);
 8 COMMIT;
 9 END;
10 /
PL/SQL procedure successfully completed.
SOL> COLUMN STUDID FORMAT 9999
SQL> COLUMN SNAME FORMAT A9
SQL> COLUMN STREET FORMAT A12
SQL> COLUMN CITYNAME FORMAT A13
SQL> COLUMN STATENAME FORMAT A15
SQL> COLUMN PINCODE FORMAT 999999
SOL> SELECT *
  2 FROM Students;
STUDID SNAME
             STREET CITYNAME STATENAME PINCODE
_____ ________
 1200 SAMPATH SHIV BAGH HYDERABAD ANDHRA PRADESH
                                                      506001
 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002
 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU
                                                     606060
```

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```
SQL> CREATE OR REPLACE TYPE MyAddress
  2 AS OBJECT
  3 (
  4
     Street
                           VARCHAR2 (40),
  5
    CityName
                    VARCHAR2 (25),
    StateName
                     VARCHAR2 (40),
  6
  7
    Pincode
                         NUMBER (6)
  8);
  9
Type created.
SQL> CREATE OR REPLACE TYPE MyStudent
  2 AS OBJECT
  3 (
    SName VARCHAR2(30),
  5
    Saddress Myaddress
  6);
Type created.
SQL> SELECT
  2 StudID,
  3 SName,
  4 Street, CityName, StateName,
  5 FROM Students;
                                                     PINCODE
STUDID SNAME
              STREET
                            CITYNAME
                                          STATENAME
  1200 SAMPATH SHIV BAGH HYDERABAD ANDHRA PRADESH 506001
 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002
 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU 606060
SOL> SELECT
  2 StudID,
  3 SName,
  4 Myaddress (Street, CityName, StateName, Pincode)
  5 FROM Students;
STUDID SNAME
MYADDRESS (STREET, CITYNAME, STATENAME, PINCODE) (STREET, CITYNAME, STATENAME,
PINCODE)
  1200 SAMPATH
```

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```
.....
MYADDRESS('SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001)
  1201 SRINIVAS
MYADDRESS ('SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA PRADESH', 506002)
 1202 SHIVAJI
MYADDRESS ('ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU', 606060)
SOL> SELECT
  2 StudID,
  3 MyStudent(SName,
  4 Myaddress(Street, CityName, StateName, Pincode)
  5 FROM Students;
STUDID
MYSTUDENT (SNAME, MYADDRESS (STREET, CITYNAME, STATENAME, PINCODE)) (SNAME,
SADDRESS (STREET, CITYNAME, STATENAME, PINCODE))
MYSTUDENT ('SAMPATH', MYADDRESS ('SHIV BAGH', 'HYDERABAD', 'ANDHRA
PRADESH', 506001))
 1201
MYSTUDENT ('SRINIVAS', MYADDRESS ('SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 506002))
 1202
MYSTUDENT ('SHIVAJI', MYADDRESS ('ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',
606060))
SQL> CREATE OR REPLACE VIEW
  2 StudentOV(StudID, StudDEF)
  3 AS
  4 SELECT
  5 StudID,
  6 MyStudent (SName,
    Myaddress(Street, CityName, StateName, Pincode))
  8 FROM Students;
View created.
SOL> DESC StudentOV
```

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.....

```
Name
Type
                                                            NOT
STUDID
NULL NUMBER (6)
STUDDEF
MYSTUDENT
SQL> SELECT * FROm StudentOV;
STUDID
_____
STUDDEF(SNAME, SADDRESS(STREET, CITYNAME, STATENAME, PINCODE))
______
MYSTUDENT('SAMPATH', MYADDRESS('SHIV BAGH', 'HYDERABAD', 'ANDHRA
PRADESH', 506001))
 1201
MYSTUDENT ('SRINIVAS', MYADDRESS ('SHYAM NAGAR',
                                          'SECUNDERABAD', 'ANDHRA
PRADESH', 506002))
 1202
MYSTUDENT ('SHIVAJI', MYADDRESS ('ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',
SQL> SELECT
 2 StudID,
  3 E1.StudDEF.Sname Sname,
  4 E1.StudDEF.SAddress.Street Street,
  5 E1.StudDEF.SAddress.CityName CityName,
  6 E1.StudDEF.SAddress.StateName StateName,
  7 E1.StudDEF.SAddress.PinCode PinCode
 8 FROM
 9
    (
    SELECT *
 10
 11 FROM StudentOV
 12
    ) E1;
STUDID SNAME STREET CITYNAME STATENAME PINCODE
  1200 SAMPATH SHIV BAGH HYDERABAD
                                      ANDHRA PRADESH
                                                       506001
 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002
 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU
```

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```
SQL> INSERT INTO StudentOV
 2 VALUES
 3
    (
 4
     1203,
 5
    MYStudent
 6
 7
          'RAMESH',
 8
          MyAddress
 9
 10
                'SHYAMA NAGAR',
11
                'SECUNDERABAD',
                'ANDHRA PRADESH',
12
13
                506001
14
15
16
     );
1 row created.
SQL> SELECT
 2 StudID.
 3 E1.StudDEF.Sname Sname,
 4 E1.StudDEF.SAddress.Street Street,
 5 E1.StudDEF.SAddress.CityName CityName,
 6 E1.StudDEF.SAddress.StateName StateName,
 7 E1.StudDEF.SAddress.PinCode PinCode
 8
   FROM
 9
 10
       SELECT *
11
       FROM StudentOV
12
       ) E1;
                            CITYNAME STATENAME PINCODE
STUDID SNAME
                STREET
 1200 SAMPATH SHIV BAGH HYDERABAD
                                        ANDHRA PRADESH
                                                         506001
 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002
 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU
                                                         606060
 1203 RAMESH
              SHYAMA NAGAR SECUNDERABAD ANDHRA PRADESH 506001
SQL> SELECT * FROM Students;
               STREET CITYNAME
STUDID SNAME
                                       STATENAME
                                                      PINCODE
                           HYDERABAD
 1200 SAMPATH
               SHIV BAGH
                                         ANDHRA PRADESH
                                                         506001
 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002
 1202 SHIVAJI ANDAL NAGAR CHENNAI
                                        TAMIL NADU
```

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```
.....
  1203 RAMESH
                SHYAMA NAGAR SECUNDERABAD ANDHRA PRADESH
SQL> cl scr
SQL> CREATE OR REPLACE TYPE StudentType
  2 AS OBJECT
  3
  4
     Studid NUMBER(6),
  5
     Sname VARCHAR2(30),
  6
     Street VARCHAR2 (40),
  7
    Cityname VARCHAR2(25),
     Statename VARCHAR2 (40),
  9
    Pincode NUMBER(6)
 10 );
 11 /
Type created.
SQL> DESC Students
Name
                                                               Null?
Type
 STUDID
                                                               NOT
NULL NUMBER (6)
 SNAME
VARCHAR2 (30)
 STREET
VARCHAR2 (40)
CITYNAME
VARCHAR2 (25)
 STATENAME
VARCHAR2 (40)
 PINCODE
NUMBER (6)
SQL> DESC StudentType
Name
                                                               Null?
Type
 STUDID
NUMBER (6)
 SNAME
VARCHAR2 (30)
 STREET
VARCHAR2 (40)
```

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CITYNAME VARCHAR2 (25) STATENAME VARCHAR2 (40) PINCODE NUMBER (6) SQL> CREATE TABLE StudentBooks 2 3 LibTranNO NUMBER(6), Δ StudID NUMBER (6), 5 BookTitle VARCHAR2(50), 6 LendingDateDATE, 7 CONSTRAINT LibtreamNoPK PRIMARY KEY (LibTranNO, Studid), 8 9 CONSTRAINT StudentBooksFK FOREIGN KEY(Studid) 10 11 REFERENCES Students (StudID) 12 ); Table created. SQL> BEGIN 2 DELETE FROM STUDENTS; 3 INSERT INTO Students 4 VALUES (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001); 5 INSERT INTO Students 6 VALUES (1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA PRADESH', 506002); 7 INSERT INTO Students 8 VALUES(1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU', 606060); 9 COMMIT: 10 END; 11 / PL/SQL procedure successfully completed. SOL> BEGIN INSERT INTO StudentBooks VALUES (2000, 1200, 'THERMO DYNAMICS', SYSDATE); 4 INSERT INTO StudentBooks 5 VALUES (2001, 1200, 'FLUID MECHANICS', SYSDATE); 6 INSERT INTO StudentBooks VALUES (2002, 1200, 'ATOMIC PHYSICS', SYSDATE); 7 8 INSERT INTO StudentBooks

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..... 9 VALUES (2003, 1201, 'STRUCTURAL DYNAMICS', SYSDATE); 10 INSERT INTO StudentBooks 11 VALUES (2004, 1201, 'AVIATION THEORY', SYSDATE); 12 INSERT INTO StudentBooks 13 VALUES (2005, 1202, 'PROPULSION THEORY', SYSDATE); 14 COMMIT; 15 END; 16 / PL/SQL procedure successfully completed. SOL> SELECT \* FROM Students; STUDID SNAME STREET CITYNAME STATENAME \_\_\_\_\_ \_\_\_\_\_ 1200 SAMPATH SHIV BAGH HYDERABAD ANDHRA PRADESH 506001 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU 606060 SOL> SELECT \* FROM StudentBooks; LIBTRANNO STUDID BOOKTITLE LENDINGDA 2000 1200 THERMO DYNAMICS 06-JUL-18 2001 1200 FLUID MECHANICS 06-JUL-18 2002 1200 ATOMIC PHYSICS 06-JUL-18 2003 1201 STRUCTURAL DYNAMICS 06-JUL-18 06 -2004 1201 AVIATION THEORY JUL-18 1202 PROPULSION THEORY 06-2005 JUL-18 6 rows selected. SQL> COLUMN LIBTRANNO FORMAT 9999 SQL> COLUMN STUDID FORMAT 9999 SQL> COLUMN BOOKTITLE FORMAT A20 SQL> cl scr SQL> SELECT \* FROM StudentBooks;

-----

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LIBTRANNO	STUDID	BOOKTITLE	LENDINGDA
2000	1200	THERMO DYNAMICS	06-JUL-18
2001	1200	FLUID MECHANICS	06-JUL-18
2002	1200	ATOMIC PHYSICS	06-JUL-18
2003	1201	STRUCTURAL DYNAMICS	06-JUL-18
2004	1201	AVIATION THEORY	06-JUL-18
2005	1202	PROPULSION THEORY	06-JUL-18

6 rows selected.

#### SQL> SELECT

- 2 Sname,
- 3 Street,
- 4 CityName,
- 5 StateName,
- 6 Pincode,
- 7 BookTitle,
- 8 LendingDate
- 9 FROM Students S, StudentBooks SB
- 10 WHERE S.StudID = SB.StudID;

	SNAME	STREET	CITYNAME	STATENAME	PINCODE	BOOKTITILE
	LENDINGDA		10			
			, ()			
	SAMPATH	SHIV BAGH	HYDERABAD	ANDHRA PRADESH	506001	THERMO
DYNAMICS 06-JUL-18						
	SAMPATH	SHIV BAGH	HYDERABAD	ANDHRA PRADESH	506001	FLUID
	MECHANICS	06-JUL-1				
	SAMPATH	SHIV BAGH	HYDERABAD	ANDHRA PRADESH	506001	ATOMIC
	PHYSICS	06-JUL-18	3			
	SRINIVAS	SHYAM NAGAR	SECUNDERABAD	ANDHRA PRADESH	506002	STRUCTURAL
	DYNAMICS	06-JUL-18				
	SRINIVAS	SHYAM NAGAR	SECUNDERABAD	ANDHRA PRADESH	506002	AVIATION
	THEORY	06-JUL-18				
	SHIVAJI	ANDAL NAGAR	CHENNAI	TAMIL NADU	606060	PROPULSION
	THEORY	06-JUL-18				

#### 6 rows selected.

SQL> CREATE OR REPLACE VIEW Studentov

- 2 OF StudentType
- 3 WITH OBJECT IDENTIFIER (StudID)
- 4 AS
- 5 SELECT StudID,
- 6 Sname, Street, CityName, StateName, Pincode

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..... 7 FROM Students; View created. SQL> DESC Studentov Name Null? Type NUMBER (6) SNAME VARCHAR2 (30) STREET VARCHAR2 (40) CITYNAME VARCHAR2 (25) STATENAME VARCHAR2 (40) PINCODE NUMBER (6) SQL> SELECT \* FROM Studentov; STUDID SNAME STREET CITYNAME STATENAME PINCODE HYDERABAD ANDHRA PRADESH 1200 SAMPATH SHIV BAGH 506001 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 506002 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU 606060 SQL> ED Wrote file afiedt.buf 1 SELECT REF(SO), SO.\* 2\* FROM Studentov SO SQL> / REF(SO) STUDID SNAME STREET CITYNAME STATENAME 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 000000090606002A00078401FE0000000A02C20D000000 1200 SAMPATH SHIV BAGH HYDERABAD ANDHRA PRADESH 506001

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00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 000000090606002A00078401FE000000B03C20D020000 1201 SRINIVAS SHYAM NAGAR SECUNDERABAD ANDHRA PRADESH 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000B03C20D030000 1202 SHIVAJI ANDAL NAGAR CHENNAI TAMIL NADU 606060 SOL> cl scr SOL> SELECT 2 MAKE REF(StudentOV, StudID) StudOID, 3 LibTranNo, BookTitle, LendingDate 4 FROM StudentBooks; STUDOID LIBTRANNO BOOKTITLE LENDINGDA 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 000000090606002A00078401FE0000000A02C20D000000 2000 THERMO DYNAMICS 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000A02C20D000000 2001 FLUID MECHANICS 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000A02C20D000000 2002 ATOMIC PHYSICS 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 000000090606002A00078401FE000000B03C20D020000 2003 STRUCTURAL DYNAMICS 06-JUL-18 STUDOID LIBTRANNO BOOKTITLE LENDINGDA SkvEss Techno Solutions Pvt. Ltd.

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00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE000000B03C20D020000 2004 AVIATION THEORY 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000B03C20D030000 2005 PROPULSION THEORY 06-JUL-18 6 rows selected. SOL> ED Wrote file afiedt.buf 1 SELECT 2 DEREF (MAKE REF (StudentOV, StudID)) StudOID, 3 LibTranNo, BookTitle, LendingDate 4\* FROM StudentBooks SQL> / STUDOID(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE) -----LIBTRANNO BOOKTITLE LENDINGDA STUDENTTYPE(1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001) 2000 THERMO DYNAMICS 06-JUL-18 STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001) 2001 FLUID MECHANICS 06-JUL-18 STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001) 2002 ATOMIC PHYSICS 06-JUL-18 STUDENTTYPE (1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA PRADESH', 506002) 2003 STRUCTURAL DYNAMICS 06-JUL-18 STUDENTTYPE (1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA PRADESH', 506002)

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..... 2004 AVIATION THEORY 06-JUL-18 STUDOID (STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE) LIBTRANNO BOOKTITLE LENDINGDA ----- -----STUDENTTYPE (1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU' 2005 PROPULSION THEORY 06-JUL-18 6 rows selected. SOL> cl scr SOL> CREATE VIEW StudentBooksOV 2 AS 3 SELECT 4 MAKE REF(StudentOV, StudID) StudOID 5 LibTranNo, BookTitle, LendingDate 6 FROM StudentBooks; View created. SQL> SELECT \* FROM StudentBooksOV STUDOID LIBTRANNO BOOKTITLE \ 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000A02C20D000000 2000 THERMO DYNAMICS 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 000000099606002A00078401FE000000A02C20D000000 2001 FLUID MECHANICS 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000A02C20D000000 2002 ATOMIC PHYSICS 06-JUL-18

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00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000B03C20D020000 2003 STRUCTURAL DYNAMICS 06-JUL-18 STUDOID LIBTRANNO BOOKTITLE LENDINGDA 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 0000000090606002A00078401FE0000000B03C20D020000 2004 AVIATION THEORY 06-JUL-18 00004A038A004667B26C75F24B4CF7944197CBCBCE5224000000142601000100010029000 000000090606002A00078401FE0000000B03C20D030000 2005 PROPULSION THEORY 06-JUL-18 6 rows selected. SOL> SELECT DEREF(SB.StudOID) 2 FROM StudentBooksOV SB 3 WHERE BookTitle = 'THERMO DYNAMICS'; DEREF(SB.STUDOID)(STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE) \_\_\_\_\_ STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001) SQL> SELECT DEREF(SB.StudOID) 2 FROM StudentBooksOV SB; DEREF (SB.STUDOID) (STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE) -----STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001) STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH', 506001)

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```
STUDENTTYPE (1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 506002)
STUDENTTYPE (1201, 'SRINIVAS', 'SHYAM NAGAR', 'SECUNDERABAD', 'ANDHRA
PRADESH', 506002)
STUDENTTYPE (1202, 'SHIVAJI', 'ANDAL NAGAR', 'CHENNAI', 'TAMIL NADU',
606060)
6 rows selected.
SOL> SELECT
 2 LibTranNO,
 3 BookTitle,
 4 LendingDate,
   DEREF(SB.StudOID) StudentData
 6 FROM StudentBooksOV SB
 7 WHERE BookTitle = 'THERMO DYNAMICS';
LIBTRANNO BOOKTITLE
                 LENDINGDA
______
STUDENTDATA (STUDID, SNAME, STREET, CITYNAME, STATENAME, PINCODE)
  2000 THERMO DYNAMICS 06-JUL-18
STUDENTTYPE (1200, 'SAMPATH', 'SHIV BAGH', 'HYDERABAD', 'ANDHRA PRADESH',
506001)
SOL> SELECT
 2 StudentBooksData.StudentData.StudID StudID,
 3 StudentBooksData.StudentData.Sname Sname,
 4 LibTranNO,
 5 BookTitle,
 6 LendingDate
 7 FROM
 8 (
 9 SELECT
10 LibTranNO,
11 BookTitle,
12 LendingDate,
13 DEREF(SB.StudOID) StudentData
14
    FROM StudentBooksOV SB
15 ) StudentBooksData;
STUDID SNAME
            LIBTRANNO BOOKTITLE
_____ _______
 1200 SAMPATH
                                     06-JUL-18
                 2002 ATOMIC PHYSICS
 1200 SAMPATH
                2001 FLUID MECHANICS
                                     06-JUL-18
```

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 ••

1200 SAMP	ATH 2000	THERMO DYNA	AMICS	06-JUL-18
1201 SRIN	IVAS 2004	AVIATION T	HEORY	06-JUL-18
1201 SRIN	IVAS 2003	STRUCTURAL	DYNAMICS	06-JUL-18
1202 SHIV	AJI 2005	PROPULSION	THEORY	06-JUL-18

6 rows selected.

SQL> SPOOL OFF

\_\_\_\_\_

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