

::::Question

Q1: Create User.

Q2: Create Table for the given schema-

user(user_id, username, password, utype)

Book_review(r_id, review, user_id, book_id, comment)

Book(book_id, title, price, author, publisher)

Ans 2: **Code of Table:** [Run the following code serially or Create table manually]

1

```
CREATE TABLE "BOOK"
(  "BOOK_ID" VARCHAR2(30),
  "TITLE" VARCHAR2(30),
  "PRICE" NUMBER,
  "AUTHOR" VARCHAR2(30),
  "PUBLISHER" VARCHAR2(30),
  CONSTRAINT "BOOK_PK" PRIMARY KEY ("BOOK_ID")
USING INDEX ENABLE
)
```

2

```
CREATE TABLE "USERS"
(  "USER_ID" VARCHAR2(30),
  "USERNAME" VARCHAR2(30),
  "PASSWORD" VARCHAR2(30),
  "UTYPE" VARCHAR2(30),
  CONSTRAINT "USERS_PK" PRIMARY KEY ("USER_ID")
USING INDEX ENABLE
)
```

3

```
CREATE TABLE "BOOK_REVIEW"
(  "R_ID" VARCHAR2(30),
  "REVIEWS" VARCHAR2(30),
  "USER_ID" VARCHAR2(30),
  "BOOK_ID" VARCHAR2(30),
  "COMMENTS" VARCHAR2(50),
  CONSTRAINT "BOOK_REVIEW_PK" PRIMARY KEY ("R_ID")
```

```

USING INDEX ENABLE
)
/

```

4

```

ALTER TABLE "BOOK_REVIEW" ADD CONSTRAINT "BOOK_REVIEW_FK"
FOREIGN KEY ("USER_ID")
REFERENCES "USERS" ("USER_ID") ENABLE
/

```

5

```

ALTER TABLE "BOOK_REVIEW" ADD CONSTRAINT "BOOK_REVIEW_FK1"
FOREIGN KEY ("BOOK_ID")
REFERENCES "BOOK" ("BOOK_ID") ENABLE
/

```

Q3: Insert Data in the table (*Minimum 5 Row*)

Q4:

01. Write a PL/SQL program that will take input from the BOOK database and will show the book details only if the book price is more than 500.

Ans 4- 01:

Declare

Begin

for i in (

select *

from book

)

Loop

IF i.price>500

then dbms_output.put_line(i.BOOK_ID || ' ' || i.TITLE || ' ' || i.price);

End IF;

End Loop;

End;

02. Write a PL/SQL program to show the review of the books only if the book review is 'Positive'

Ans 4- 02:

```
Declare

Begin
for i in (
  select *
  from BOOK_REVIEW
  where REVIEWS='Positive'
)

Loop
  dbms_output.put_line(i.R_ID || ' ' || i.BOOK_ID || ' ' || i.REVIEWS || ' ' || i.COMMENTS);
End Loop;
End;
```

Ans 4- 02- or:

```
Declare

Begin
for i in (
  select *
  from BOOK_REVIEW
)

Loop
  IF i.REVIEWS='Positive' THEN
    dbms_output.put_line(i.R_ID || ' ' || i.BOOK_ID || ' ' || i.REVIEWS || ' ' || i.COMMENTS);
  END IF;
End Loop;
End;
```

03. Write a SQL query to show the details of reviewed book by a user only if the user id and password matches for that user.

Ans 4- 03:

```
SELECT *
FROM BOOK
WHERE BOOK_ID IN(SELECT BOOK_ID
                  FROM BOOK_REVIEW
                  WHERE USER_ID= (SELECT USER_ID
                                FROM USERS
                                WHERE USER_ID= :id AND PASSWORD= :pass));
```

04. Write a PL/SQL program to show the list of users who have reviewed same book as 'Salman'

Ans 4- 01:

Create VIEW (*Same as creating Table*)

Then write the following code on QUERY Box of View:

```
SELECT R.R_ID, R.USER_ID, U.USERNAME, U.PASSWORD, REVIEWS,
COMMENTS
FROM BOOK_REVIEW R,USERS U
WHERE R.USER_ID= U.USER_ID
```

Then Run the PL/SQL Command:

```
DECLARE

BEGIN
FOR i IN
(
  SELECT *
  FROM ok
  WHERE REVIEWS= ( SELECT REVIEWS
                  FROM ok
                  WHERE USERNAME= 'Salman'
                  )
)

LOOP
  DBMS_OUTPUT.PUT_LINE(i.R_ID || ' ' || i.USER_ID || ' ' || i.USERNAME || ' ' ||
i.PASSWORD || ' ' || i.REVIEWS || ' ' || i.COMMENTS);
END LOOP;
END;
```

Ans 4- 04- or:

```
DECLARE
  CURSOR ok IS

  SELECT *
  FROM USERS
  WHERE USER_ID IN (SELECT USER_ID
                    FROM BOOK_REVIEW
                    WHERE BOOK_ID IN(SELECT BOOK_ID
                                      FROM BOOK_REVIEW
                                      WHERE USER_ID = (SELECT USER_ID
                                                        FROM USERS
                                                        WHERE USERNAME = 'Salman')));

  US ok%ROWTYPE;
BEGIN
  OPEN ok;
  LOOP
    FETCH ok INTO US;
    EXIT WHEN ok%NOTFOUND;
    DBMS_OUTPUT.PUT_LINE('USER NAME : '|| US.USERNAME);
    DBMS_OUTPUT.PUT_LINE('USER ID : '|| US.USER_ID);
    DBMS_OUTPUT.PUT_LINE('USER PASSWORD : '|| US.PASSWORD);
    DBMS_OUTPUT.PUT_LINE('USER TYPE : '|| US.UTYPE);
  END LOOP;
  CLOSE ok;
END;
```

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