

*DCL & Views*

Reminder: read the Project Guidelines document for instructions on how to format and submit your assignments. Be sure to include the results of your SQL commands.

***Under your own account (in your own schema)***

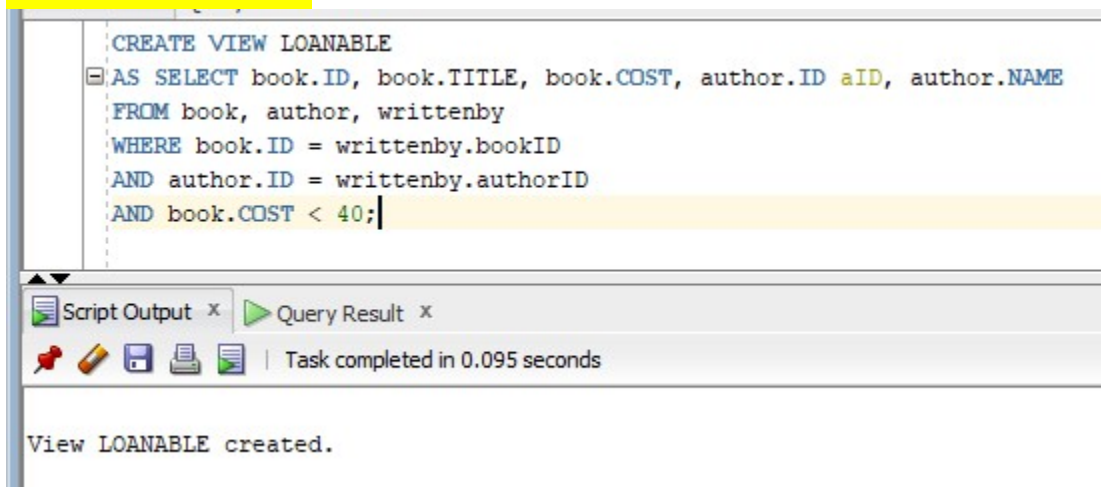
- List the book(id, title, and cost) and author(id, name) info for all books in the collection that cost less than \$40..

```
SELECT book.ID, book.TITLE, book.COST, author.ID, author.NAME
FROM book, author, writtenby
WHERE book.ID = writtenby.bookID
AND author.ID = writtenby.authorID
AND book.COST < 40
```

ID	TITLE	COST	AID	NAME
1	20011 The Dumas Club	23.95	10013	Arturo Perez-Reverte
2	20012 The Negotiator	19.95	10025	Frederick Forsyth
3	20013 Icon	26.95	10025	Frederick Forsyth
4	20014 The Fist of God	12.95	10025	Frederick Forsyth
5	20015 The Fourth Protocol	14.95	10025	Frederick Forsyth
6	20016 The Dogs of War	14.95	10025	Frederick Forsyth
7	20021 Inca Gold	24	10012	Clive Cussler
8	20022 Shock Wave	24	10012	Clive Cussler

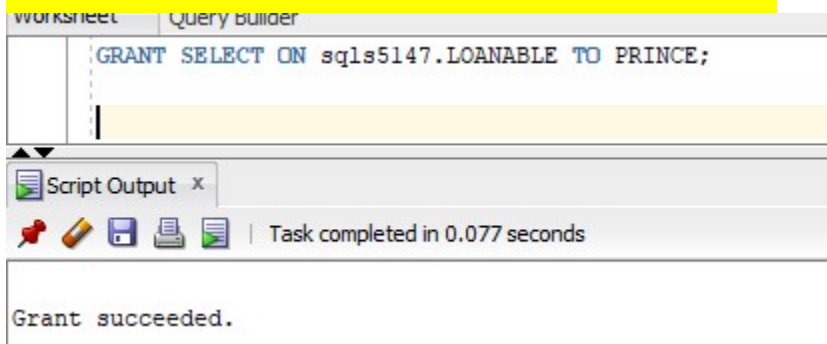
- Create a view, named LOANABLE, based on the previous select.

```
CREATE VIEW LOANABLE
AS SELECT book.ID, book.TITLE, book.COST, author.ID aID, author.NAME
FROM book, author, writtenby
WHERE book.ID = writtenby.bookID
AND author.ID = writtenby.authorID
AND book.COST < 40;
```



- Give the user: PRINCE permission to read this view.

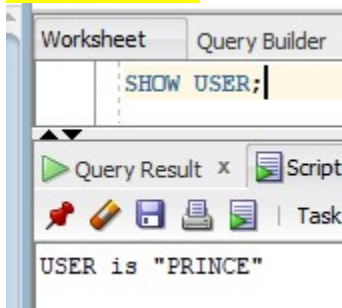
```
GRANT SELECT ON sqls5147.LOANABLE TO PRINCE;
```



***Login in as PRINCE/HARRY and do the following***

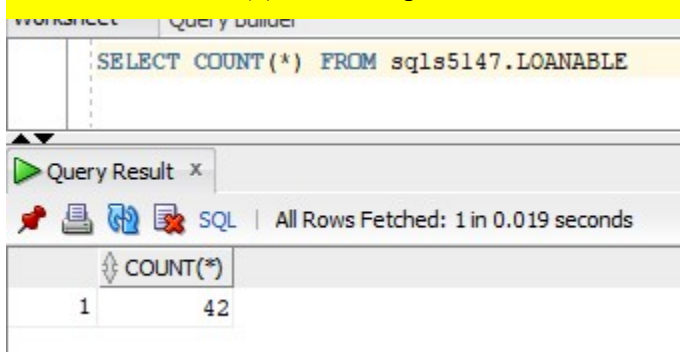
- Issue a show user (to demonstrate that you're in the right account)

SHOW USER;



- Using the LOANABLE view (from your schema), how many books are there in the collection?

SELECT COUNT(\*) FROM sqls5147.LOANABLE;



- Using the LOANABLE view, list the title, author and cost for the least expensive book(s) in the collection.

SELECT TITLE, NAME, COST FROM sqls5147.LOANABLE  
WHERE COST IN (SELECT MIN(COST) FROM sqls5147.LOANABLE)





<pre>SELECT TITLE, NAME, COST FROM sqls5147.LOANABLE WHERE COST IN (SELECT MIN(COST) FROM sqls5147.LOANABLE)</pre>			
Script Output x Query Result x			
SQL   All Rows Fetched: 5 in 0.02 seconds			
	TITLE	NAME	COST
1	Foundation	Isaac Asimov	6.95
2	Foundation and Empire	Isaac Asimov	6.95
3	Second Foundation	Isaac Asimov	6.95
4	The Andromeda Strain	Michael Crichton	6.95
5	Airframe	Michael Crichton	6.95

- Using the LOANABLE view, list the book(id, title, and cost) and author(id, name) info for all books in the collection, that cost less than \$10.

```
SELECT ID, TITLE, COST, aID, NAME
FROM sqls5147.LOANABLE
WHERE COST < 10
```

SELECT ID, TITLE, COST, aID, NAME  
FROM sqls5147.LOANABLE  
WHERE COST < 10

Script Output x Query Result x

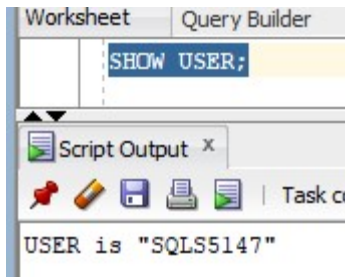
    SQL | All Rows Fetched: 5 in 0.061 seconds

	ID	TITLE	COST	AID	NAME
1	20026	Foundation	6.95	10019	Isaac Asimov
2	20027	Foundation and Empire	6.95	10019	Isaac Asimov
3	20028	Second Foundation	6.95	10019	Isaac Asimov
4	20034	The Andromeda Strain	6.95	10020	Michael Crichton
5	20036	Airframe	6.95	10020	Michael Crichton

*Under your own account (in your own schema)*

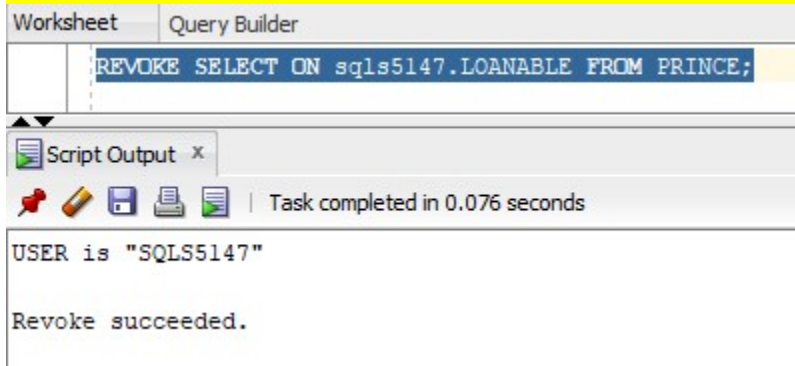
- Issue a show user (to demonstrate that you're in the right account)

```
SHOW USER;
```



- Revoke the privileges that you previous granted to PRINCE

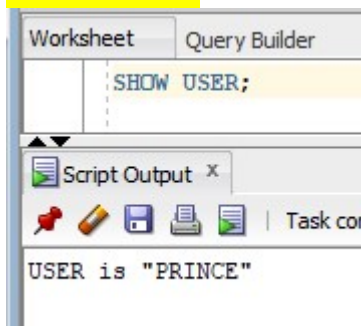
REVOKE SELECT ON sqls5147.LOANABLE FROM PRINCE;



### *Under the PRINCE/HARRY account*

- Issue a show user (to demonstrate that you're in the right account)

SHOW USER;



- Using the LOANABLE view (from your schema), how many books are there in the collection?

SELECT COUNT(\*) FROM sqls5147.LOANABLE;

Worksheet    Query Builder

```
SELECT COUNT(*) FROM sqls5147.LOANABLE;
```

Script Output x    Query Result x

SQL | Executing: SELECT COUNT(\*) FROM sqls5147.LOANABLE in 0 seconds

ORA-00942: table or view does not exist  
00942. 00000 - "table or view does not exist"  
\*Cause:  
\*Action:  
Error at Line: 1 Column: 31