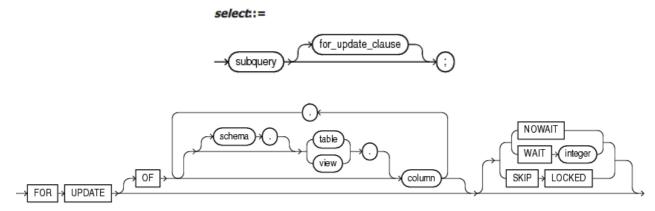
Eiercicio 1



Use the OF ... column clause to lock the select rows only for a particular table or view in a join. The columns in the OF clause only indicate which table or view rows are locked. The specific columns that you specify are not significant. However, you must specify an actual column name, not a column alias. If you omit this clause, then the database locks the selected rows from all the tables in the query.

Specify SKIP LOCKED to instruct the database to attempt to lock the rows specified by the WHERE clause and to skip any rows that are found to be already locked by another transaction.

- Bloquea filas antes de una actualización o eliminación.
- La cláusula FOR UPDATE es la última cláusula de una sentencia SELECT, incluso después del ORDER BY.
- NOWAIT devuelve un error de Oracle si las filas han sido bloqueadas por otra sesión.

Ejercicio 2

DBA LOCK lists all locks held in the database, and all outstanding requests for a lock.

Column	Datatype	Description	
SESSION_ID	NUMBER	Session holding or acquiring the lock	
LOCK_TYPE	VARCHAR2 (26)	Lock type	
MODE HELD	VARCHAR2 (40)	Lock mode	
MODE REQUESTED	VARCHAR2 (40)	Lock mode requested	
LOCK_ID1	VARCHAR2 (40)	Type-specific lock identifier, part 1	
LOCK_ID2	VARCHAR2 (40)	Type-specific lock identifier, part 2	
LAST_CONVERT	NUMBER	The last convert	
BLOCKING_OTHERS	VARCHAR2 (40)	Whether the lock is currently blocking others	

Ejercicio 3

Después de 1:				
SQL> SELECT SESSION_ID, LOCK_TYPE, MODE_HELD, BLOCKING_OTHERS FROM DBA_LOCK WHERE LOCK_TYPE IN ('Transaction', 'DML');				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
132 DML	Row-X (SX)	Not Blocking		
132 Transaction	Exclusive	Not Blocking		
Después de 2:				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
7 Transaction	None	Not Blocking		
132 DML 7 DML	Row-X (SX) Row-X (SX)	Not Blocking		
132 Transaction		Not Blocking Blocking		
Después de 3:				
ORA-02292: restricción de i	ntegridad (SYSTEM.SYS_C0011055) violada -	registro secundario encontrado		
ninguna fila seleccionada				
Después de 4:				
SESSION_ID LOCK_TYPE		BLOCKING_OTHERS		
7 DML	Row-X (SX)	Not Blocking		
7 Transaction	Exclusive	Not Blocking		
Después de 5:				
ORA-00054: recurso ocupado	y obtenido con NOWAIT especificado o timeo	out vendide		
		out vention		
Dospués do 6:		out ventuo		
Después de 6:		ac venciuo		
Después de 6: SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
SESSION_ID LOCK_TYPE	MODE_HELD 	BLOCKING_OTHERS		
SESSION_ID LOCK_TYPE	Row-X (SX) Row-X (SX)	BLOCKING_OTHERS		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction	Row-X (SX) Row-X (SX) Exclusive	BLOCKING OTHERS Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction	Row-X (SX) Row-X (SX)	BLOCKING_OTHERS Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7:	Row-X (SX) Row-X (SX) Exclusive	BLOCKING OTHERS Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction	Row-X (SX) Row-X (SX) Exclusive	BLOCKING OTHERS Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML 7 Transaction	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD Row-X (SX) Exclusive	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML 7 Transaction Después de 8: SESSION_ID LOCK_TYPE	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD Row-X (SX) Exclusive	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML 7 Transaction Después de 8: SESSION_ID LOCK_TYPE 132 DML 7 DML 7 DML	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD Row-X (SX) Exclusive MODE_HELD None Row-X (SX)	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML 7 Transaction Después de 8: SESSION_ID LOCK_TYPE 132 DML 7 DML 7 DML 7 Transaction	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD Row-X (SX) Exclusive MODE_HELD None Row-X (SX)	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML 7 Transaction Después de 8: SESSION_ID LOCK_TYPE 132 DML 7 DML 7 Transaction Después de 9:	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD Row-X (SX) Exclusive MODE_HELD None Row-X (SX) Exclusive	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking		
SESSION_ID LOCK_TYPE 132 DML 7 DML 132 Transaction 7 Transaction Después de 7: SESSION_ID LOCK_TYPE 7 DML 7 Transaction Después de 8: SESSION_ID LOCK_TYPE 132 DML 7 DML 7 DML 7 Transaction	Row-X (SX) Row-X (SX) Exclusive Exclusive MODE_HELD Row-X (SX) Exclusive MODE_HELD None Row-X (SX)	BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking BLOCKING_OTHERS Not Blocking Not Blocking Not Blocking Not Blocking		

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Ejercicio 4

Después de 2:				
SQL> SELECT SESSION_ID, LOCK_TYPE, MODE_HELD, BLOCKING_OTHERS FROM DBA_LOCK WHERE LOCK_TYPE IN ('Transaction', 'DML');				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
132 DML 7 DML	Share Share	Not Blocking Not Blocking		
Después de 3:		NOT DIOUNING		
peopued de 3.				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
132 DML 7 DML	Share Share	Blocking Blocking		
Después de 4:		•		
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
	S/Row-X (SSX)	Not Blocking		
132 Transaction	EXCLUSIVE	Not Blocking		
Después de 7:				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
132 DML	Share	Not Blocking		
7 DML	Exclusive	Not Blocking		
Después de 8:				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
132 DML	Share	Blocking		
7 DML 7 DML	Exclusive None	Not Blocking Not Blocking		
Después de 9:		,		
ORA-00060: detectado interbloqueo mientras se esperaba un recurso				
SESSION_ID LOCK_TYPE		BLOCKING_OTHERS		
132 DML	Share	Not Blocking		
132 DML	None	Not Blocking		
7 DML	Exclusive	Blocking		
Después de 10:				
SESSION_ID LOCK_TYPE	MODE_HELD	BLOCKING_OTHERS		
132 DML	Share	Not Blocking		
132 DML	Exclusive	Not Blocking		

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Otras formas de consultar los bloqueos:

```
SELECT A.OWNER, A.OBJECT_NAME, B.SID, B.SERIAL#, B.USERNAME, B.STATUS
FROM DBA_OBJECTS A, V$SESSION B, V$LOCKED_OBJECT C
WHERE A.OBJECT_ID = C.OBJECT_ID
AND B.SID = C.SESSION_ID;
```

```
SELECT * FROM V$LOCK;
```

Universidad de Huelva 3