Oracle	Name:	
Practice	Class:	
Isolation	Date:	

!!! Teamwork !!!

Create a new TABLESPACE:				
Name:	SHOP_LASTNAME	SHOP_GRIESMAYER		
Datafile:	shop_lastname1.dbf	<pre>shop_griesmayer1.dbf</pre>		
Size:	200 MByte; autoextend up to 300 MByte			
Datafile:	<pre>shop_lastname2.dbf</pre>	<pre>shop_griesmayer2.dbf</pre>		
Size:	100 MByte	_		

Keep the SQL-Statements for this task!

Create the following users: Name: LASTNAME1 GRIESMAYER LASTNAME2 MEIER The users should use the tablespace **SHOP LASTNAME**. CREATE USER GRIESMAYER PROFILE "DEFAULT" IDENTIFIED BY "oracle" DEFAULT TABLESPACE TBS GRIESMAYER LOCKING TEMPORARY TABLESPACE TEMP ACCOUNT UNLOCK; GRANT SELECT ANY DICTIONARY TO GRIESMAYER; GRANT UNLIMITED TABLESPACE TO GRIESMAYER; GRANT CONNECT TO GRIESMAYER; GRANT RESOURCE TO GRIESMAYER; CREATE USER MEIER PROFILE "DEFAULT" IDENTIFIED BY "oracle" DEFAULT TABLESPACE TBS GRIESMAYER LOCKING TEMPORARY TABLESPACE TEMP ACCOUNT UNLOCK; GRANT SELECT ANY DICTIONARY TO MEIER; GRANT UNLIMITED TABLESPACE TO MEIER; GRANT CONNECT TO MEIER; GRANT RESOURCE TO MEIER;

Use the LASTNAME1 user and create the following table:

 LASTNAME1_PRODUCT

 PRODUCT_ID

 INTEGER
 PRIMARY

 PRODUCT_NAME
 VARCHAR (20)

 PRODUCT_PRICE
 DECIMAL (6,2)

Add 10 rows.

Check and explain the result of the following SQL Statements using the Isolation Level "Read Committed":				
lastname (team member 1)	lastname (team member 2)			
SET TRANSACTION ISOLATION LEVEL	SET TRANSACTION ISOLATION LEVEL			
READ COMMITTED;	READ COMMITTED;			
UPDATE PRODUCT				
SET PRODUCT PRICE = 20				
WHERE PRODUCT_ID = 1;				
UPDATE PRODUCT				
SET PRODUCT PRICE = 40				
WHERE PRODUCT_ID = 2;				
INSERT INTO PRODUCT				
VALUES (11,'Water',0.5);				
DELETE FROM PRODUCT				
WHERE PRODUCT ID = 4;				
Check PRODUCT table and explain	Check PRODUCT table and explain			
	UPDATE PRODUCT			
	SET PRODUCT_PRICE =			
	PRODUCT_PRICE/2			
	WHERE PRODUCT_ID = 1;			
	UPDATE PRODUCT			
	SET PRODUCT_PRICE = 20			
	WHERE PRODUCT_ID = 2;			
	What is the difference between the two SQL statements!			
	Explain the current situation.			
COMMIT;	-			
SET TRANSACTION ISOLATION LEVEL				
READ COMMITTED;				
Check PRODUCT table and explain	Check PRODUCT table and explain			
	COMMIT;			
Check PRODUCT table and explain	Check PRODUCT table and explain			

Refill the table!!!

Check and explain the result of the following SQL Statements using the Isolation Level "Serializable":

lastname (team member 1)	lastname (team member 2)
SET TRANSACTION ISOLATION LEVEL	SET TRANSACTION ISOLATION LEVEL
SERIALIZABLE;	SERIALIZABLE;
UPDATE PRODUCT	
SET PRODUCT_PRICE = 20	
WHERE PRODUCT_ID = 1;	
UPDATE PRODUCT	
SET PRODUCT_PRICE = 40	
WHERE PRODUCT_ID = 2;	
INSERT INTO PRODUCT	
VALUES (11,'Water',0.5);	
DELETE FROM PRODUCT	
WHERE PRODUCT_ID = 4;	
Check PRODUCT table and explain	Check PRODUCT table and explain
COMMIT;	
SET TRANSACTION ISOLATION LEVEL	
SERIALIZABLE;	
Check PRODUCT table and explain	Check PRODUCT table and explain
	UPDATE PRODUCT
	SET PRODUCT_PRICE = 0.7
	WHERE PRODUCT_ID = 11;

Refill the table!!!

Check and explain the result of the following SQL Statements using the Isolation Level "Read only":

lastname (team member 1)	lastname (team member 2)
SET TRANSACTION READ ONLY;	
Check PRODUCT table and explain	Check PRODUCT table and explain
	UPDATE PRODUCT
	SET PRODUCT_PRICE = 40
	WHERE PRODUCT ID = 2;
Check PRODUCT table and explain	Check PRODUCT table and explain
	COMMIT;
Check PRODUCT table and explain	Check PRODUCT table and explain
UPDATE PRODUCT	
SET PRODUCT_PRICE = 20	
WHERE PRODUCT_ID = 1;	