Assignment #5 Referential Integrity Constraints

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Exercise 1-a. If a DBMS enforces an UPDATE RESTRICT option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the fourth record (N, North) in TERRITORY to (NO, North).

Sales_rep

SRID	SRName	TerID
1	Joe	E
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
W	West
S	South
N	North
C	Central

Exercise 1-b. If a DBMS enforces an UPDATE RESTRICT option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the second record (W, West) in TERRITORY to (WE, West).

Sales_rep

SRID	SRName	TerID
1	Joe	E
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
WE	West
S	South
N	North
C	Central

Exercise 1-c. If a DBMS enforces an UPDATE RESTRICT option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the first record (1, Joe, E) in SALES_REP to (1, Joe, C).

Sales_rep

SRID	SRName	TerID
1	Joe	C
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
W	West
S	South
N	North
C	Central

Exercise 1-d. If a DBMS enforces an UPDATE CASCADE option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the fourth record (N, North) in TERRITORY to (NO, North).

Sales_rep

SRID	SRName	TerID
1	Joe	E
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	NO
6	Pat	NO
7	Lee	NO
8	Joe	E

Territory

TerID	TerName
E	East
W	West
S	South
NO	North
C	Central

Exercise 1-e. If a DBMS enforces an UPDATE CASCADE option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the second record (W, West) in TERRITORY to (WE, West).

Sales_rep

SRID	SRName	TerID
1	Joe	E
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
WE	West
S	South
N	North
C	Central

Exercise 1-f. If a DBMS enforces an UPDATE CASCADE option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the first record (1, Joe, E) in SALES_REP to (1, Joe, C).

Sales_rep

SRID	SRName	TerID
1	Joe	C
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
W	West
S	South
N	North
C	Central

Exercise 1-g. If a DBMS enforces an UPDATE SET-TO-NULL option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the fourth record (N, North) in TERRITORY to (NO, North).

Sales_rep

SRID	SRName	TerID
1	Joe	E
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	
6	Pat	
7	Lee	
8	Joe	E

Territory

TerID	TerName
E	East
W	West
S	South
NO	North
C	Central

Exercise 1-h. If a DBMS enforces an UPDATE SET-TO-NULL option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the second record (W, West) from TERRITORY to (WE, West).

Sales_rep

SRID	SRName	TerID
1	Joe	E
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
WE	West
S	South
N	North
C	Central

Exercise 1-i. If a DBMS enforces an UPDATE SET-TO-NULL option on the referential integrity constraint between SALES_REP and TERRITORY, show the records in tables SALES_REP and TERRITORY after a user tries to change the first record (1, Joe, E) from SALES_REP to (1, Joe, C). (0.25 pt).

Sales_rep

SRID	SRName	TerID
1	Joe	C
2	Sue	E
3	Meg	C
4	Bob	S
5	Joe	N
6	Pat	N
7	Lee	N
8	Joe	E

Territory

TerID	TerName
E	East
W	West
S	South
N	North
C	Central