### **(8-2) Question 1: Add CHECK constraint to hire\_date in sec0802\_employees**

**Query:**  
ALTER TABLE sec0802\_employees ADD CONSTRAINT chk\_hire\_date CHECK (hire\_date > TO\_DATE('1995-01-01', 'YYYY-MM-DD'));  
-- Haley Archer

**Output:**  
Table altered.

### **(8-3) Question 2: Add UNIQUE constraint to department\_name in sec0803\_departments**

**Query:**  
ALTER TABLE sec0803\_departments ADD CONSTRAINT unique\_dept\_name UNIQUE (department\_name);  
-- Haley Archer

**Output:**  
Table altered.

### **(8-4) Question 3: Make last\_name a NOT NULL column in sec0804\_employees**

**Query:**  
ALTER TABLE sec0804\_employees MODIFY last\_name VARCHAR2(50) NOT NULL;  
-- Haley Archer

**Output:**  
Table altered.

### **(8-5) Question 4: Add PRIMARY KEY to dept\_code in sec0805\_departments**

**Query:**  
ALTER TABLE sec0805\_departments ADD CONSTRAINT pk\_dept\_code PRIMARY KEY (dept\_code);  
-- Haley Archer

**Output:**  
Table altered.

### **(8-8) Question 5: Add FOREIGN KEY to sec0808\_employees referencing sec0808\_departments**

**Query:**  
ALTER TABLE sec0808\_employees ADD CONSTRAINT fk\_sec0808\_dept FOREIGN KEY (dept\_code) REFERENCES sec0808\_departments (dept\_code);  
-- Haley Archer

**Output:**  
Table altered.

### **(8-9) Question 6: RI Violation - Insert statement that should fail in sec0809\_employees**

**Query:**  
INSERT INTO sec0809\_employees (employee\_id, first\_name, last\_name, dept\_code)  
VALUES (999, 'Test', 'User', 'XYZ'); -- "XYZ" is NOT in sec0809\_departments  
-- Haley Archer  
COMMIT;

**Expected Output (Error):**  
ORA-00933: SQL command not properly ended

### **(8-11) Question 7: RI Violation - Update/Delete statements on sec0811\_departments**

**Query:**  
UPDATE sec0811\_departments SET dept\_code = 'NEW\_CODE' WHERE dept\_code = 'SHP';  
-- Haley Archer

**Expected Output (Error):**  
ORA-12899: value too large for column "DEPT\_CODE" (actual: 8, maximum: 3)

**Query:**  
DELETE FROM sec0811\_departments WHERE dept\_code = 'SHP';  
-- Haley Archer

**Expected Output (Error):**  
ORA-02292: integrity constraint (FK\_SEC0811\_EMP\_DEPT\_CODE) violated - child record found

### **(8-17) Question 8: Add FOREIGN KEY to sec0817\_employees with ON DELETE SET NULL**

**Query:**  
ALTER TABLE sec0817\_employees ADD CONSTRAINT fk\_sec0817\_dept FOREIGN KEY (dept\_code) REFERENCES sec0817\_departments (dept\_code) ON DELETE SET NULL;  
-- Haley Archer

**Output:**  
Table altered.

**Query:**  
DELETE FROM sec0817\_departments WHERE dept\_code = 'SHP';  
-- Haley Archer

**Output:**  
1 row(s) deleted.

### **(8-19) Question 9: Add FOREIGN KEY to sec0819\_employees with ON UPDATE CASCADE**

**Query:**  
CREATE OR REPLACE TRIGGER trg\_update\_dept\_code  
BEFORE UPDATE ON sec0819\_departments  
FOR EACH ROW  
BEGIN  
UPDATE sec0819\_employees SET dept\_code = :NEW.dept\_code WHERE dept\_code = :OLD.dept\_code;  
END;  
-- Haley Archer

**Output:**  
Trigger created.

**Query:**  
UPDATE sec0819\_employees SET dept\_code = 'ABC' WHERE dept\_code = 'SHP';  
-- Haley Archer  
COMMIT;

**Expected Output (Error):**  
ORA-02291: integrity constraint (FK\_SEC0819\_EMP\_DEPT\_CODE) violated - parent key not found

**Query:**  
UPDATE sec0819\_departments SET dept\_code = 'ABC' WHERE dept\_code = 'SHP';  
-- Haley Archer  
COMMIT;

**Output:**  
1 row(s) updated.