1. CREATE TABLE Museum (

name VARCHAR(50) NOT NULL,

city VARCHAR(25) NOT NULL,

country VARCHAR(25) NOT NULL,

cur\_first\_name VARCHAR (20) NOT NULL,

cur\_last\_name VARCHAR(20) NOT NULL,

PRIMARY KEY (name)

UNIQUE (name)

);

2. CREATE TABLE Collection (

col\_id INT NOT NULL,

museum VARCHAR(50) NOT NULL,

name TINYTEXT,

desc TINYTEXT,

PRIMARY KEY (col\_id)

UNIQUE (col\_id)

FOREIGN KEY (museum) REFERENCES Museum (name)

);

3. CREATE TABLE Artifact (

id INT NOT NULL AUTO\_INCREMENT,

artifact\_type VARCHAR(255) NOT NULL,

create\_date DATE NOT NULL,

collection\_date DATE NOT NULL,

acquisition\_date DATE NOT NULL,

collection\_name VARCHAR(255) NOT NULL,

PRIMARY KEY (id),

FOREIGN KEY (collection\_name) REFERENCES Collection(name)

CONSTRAINT artifact\_type CHECK (type IN ('painting', 'sculpture', 'drawing', 'other'))

CONSTRAINT create\_date CHECK (create\_date > acquisition\_date)

CONSTRAINT collection\_date CHECK (acquisition\_date < collection\_date)

CONSTRAINT id CHECK (id > 1000)

);

4. SELECT company\_name

FROM company

WHERE company\_type = 'non-profit' AND industry = 'software';

5. SELECT emp\_name, hire\_date

FROM employee

WHERE title = 'software developer' AND age =< 30 AND age >= 25

ORDER BY emp\_name ASC;

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6. SELECT employee.title, company.company\_name, employee.emp\_name

FROM employee JOIN works\_for ON employee.works\_for = company.cosmpany\_name

WHERE employee.title = 'software developer'

ORDER BY company\_name ASC,

employee.emp\_name ASC;

7. SELECT employee.emp\_id

FROM employee NATURAL JOIN manages

WHERE employee.age < 40

ORDER BY employee.emp\_id ASC;

8. SELECT company.company\_name, company.industry

FROM company JOIN employee ON company.company\_name = employee.works\_for

            Manages JOIN company ON company.emp\_id = manages.emp\_id

WHERE company.title = ‘senior software developer’ AND manages.emp\_id.title = ‘software developer

9. SELECT UNIQUE e.emp\_id, e.emp\_name

FROM employee JOIN manages ON e.emp\_id = m.manager\_id

WHERE m.project\_name = NULL;

10. SELECT m.manager\_id

FROM employee JOIN manages ON e.emp\_id = m.manager\_id

WHERE m.emp\_id = m.manager\_id;s