-- Q1

DROP DATABASE IF EXISTS ClassAssignment;

CREATE DATABASE ClassAssignment;

USE ClassAssignment;

-- Q2

DROP TABLE IF EXISTS Project;

CREATE TABLE Project

(

project\_num INT NOT NULL PRIMARY KEY,

project\_code CHAR(4),

project\_title VARCHAR(45),

first\_name VARCHAR(45),

last\_name VARCHAR(45),

project\_budget DECIMAL(5,2)

);

-- Q3

ALTER TABLE Project

MODIFY COLUMN project\_num INT AUTO\_INCREMENT, AUTO\_INCREMENT = 10;

-- Q4

ALTER TABLE Project

MODIFY COLUMN project\_budget DECIMAL(10,2);

-- Q5

INSERT INTO Project (project\_code, project\_title, first\_name, last\_name, project\_budget) VALUES ('PC01', 'DIA', 'John', 'Smith', 10000.99);

INSERT INTO Project (project\_code, project\_title, first\_name, last\_name, project\_budget) VALUES ('PC02', 'CHF', 'Tim', 'Cook', 12000.50);

INSERT INTO Project (project\_code, project\_title, first\_name, last\_name, project\_budget) VALUES ('PC03', 'AST', 'Rhonda', 'Smith', 8000.40);

-- Q6

DROP TABLE IF EXISTS PayRoll;

CREATE TABLE PayRoll

(

employee\_num INT PRIMARY KEY AUTO\_INCREMENT,

job\_id INT NOT NULL,

job\_desc VARCHAR(40),

emp\_pay DECIMAL (10,2)

);

-- Q7

ALTER TABLE PayRoll

ADD CHECK (emp\_pay > 10000);

ALTER TABLE PayRoll

ALTER job\_desc SET DEFAULT 'Data Analyst';

ALTER TABLE PayRoll

ADD COLUMN pay\_date DATE AFTER job\_desc;

-- Q8

ALTER TABLE PayRoll

ADD CONSTRAINT fk\_job\_project

FOREIGN KEY (job\_id) REFERENCES Project(project\_num);

-- Q9

INSERT INTO PayRoll (job\_id, pay\_date, emp\_pay) VALUES (10, current\_date(), 12000.99);

INSERT INTO PayRoll (job\_id, pay\_date, emp\_pay) VALUES (11, current\_date(), 14000.99);

INSERT INTO PayRoll (job\_id, pay\_date, emp\_pay) VALUES (12, current\_date(), 16000.99);

-- Q10

UPDATE PayRoll

SET emp\_pay = emp\_pay\*1.1

WHERE employee\_num = 2;

-- Q11

DROP TABLE IF EXISTS Project\_backup;

CREATE TABLE Project\_backup

(

project\_num INT NOT NULL PRIMARY KEY,

project\_code CHAR(4),

project\_title VARCHAR(45),

first\_name VARCHAR(45),

last\_name VARCHAR(45),

project\_budget DECIMAL(5,2)

);

ALTER TABLE Project\_backup

MODIFY COLUMN project\_num INT AUTO\_INCREMENT, AUTO\_INCREMENT = 10;

ALTER TABLE Project\_backup

MODIFY COLUMN project\_budget DECIMAL(10,2);

INSERT INTO Project\_backup

SELECT \* FROM Project

WHERE last\_name = 'Smith';

-- Q12

CREATE VIEW PayRoll\_View AS SELECT job\_id, job\_desc, pay\_date FROM PayRoll

WHERE job\_id > 10;

-- Q13

CREATE INDEX XX\_pay\_date ON PayRoll (pay\_date);

-- Q14

TRUNCATE TABLE Project\_backup;

-- Q15

/\* DELETE FROM Project

WHERE project\_num = 10;

can't delete because the table PayRoll uses project\_num as a FK\*/

-- Q16

DELETE FROM PayRoll

WHERE job\_id = 10;

DELETE FROM Project

WHERE project\_num = 10;