-- 1

CREATE DATABASE IF NOT EXISTS ClassAssignment;

CREATE SCHEMA IF NOT EXISTS ClassAssignment;

-- 2

CREATE TABLE Projects (

project\_num INT(10) 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 )

);

-- 3

ALTER TABLE project\_num AUTO\_INCREMENT = 10;

-- 4

ALTER TABLE projects MODIFY project\_budget DECIMAL(10,2);

-- 5

Insert INTO PROJECTS (project\_code, project\_title, first\_name, last\_name, project\_budget)

VALUES (PC01, DIA, John, Smith, 10000.99);

Insert INTO PROJECTS (project\_code, project\_title, first\_name, last\_name, project\_budget)

VALUES (PC02, CHF, Tim, Cook, 12000.50);

Insert INTO PROJECTS (project\_code, project\_title, first\_name, last\_name, project\_budget)

VALUES (PC03, AST, Rhonda, Smith, 8000.4);

-- 6

CREATE TABLE payroll (

employee\_num INT(10) PRIMARY KEY AUTO\_INCREMENT,

job\_id INT(10) NOT NULL,

job\_desc VARCHAR(40),

emp\_pay DECIMAL (10,2)

);

-- 7

-- i

ALTER TABLE payroll ADD CONSTRAINT emp\_pay CHECK (emp\_pay >= 10000);

-- ii

ALTER TABLE payroll ALTER job\_desc SET DEFAULT 'Data Analyst';

-- iii

ALTER TABLE payroll ADD COlUMN pay\_date DATE AFTER job\_desc;

-- 8

ALTER TABLE payroll ADD CONSTRAINT FK\_jobIDToProjectNum FOREIGN KEY (job\_id) REFERENCES Projects(project\_num);

-- 9

Insert INTO payroll (job\_id, pay\_date, emp\_pay)

VALUES (10, CURRENT\_TIMESTAMP(), 12000.99);

Insert INTO payroll (job\_id, pay\_date, emp\_pay)

VALUES (11, CURRENT\_TIMESTAMP(), 14000.99);

Insert INTO payroll (job\_id, pay\_date, emp\_pay)

VALUES (12, CURRENT\_TIMESTAMP(), 16000.99);

-- 10

UPDATE payroll SET emp\_pay = emp\_pay + (emp\_pay \* 0.10) WHERE employee\_num = 2;

-- 11

CREATE TABLE Project\_backup

(SELECT \* FROM projects WHERE last\_name = 'Smith');

-- 12

CREATE VIEW PayRoll\_View AS SELECT job\_id, job\_desc, pay\_date FROM payroll WHERE job\_id > 10;

-- 13

CREATE INDEX PayRollIndex on payroll (pay\_date);

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DELETE FROM Project\_backup;

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DELETE FROM Projects WHERE project\_num = 10;

-- 14

DELETE FROM Project\_backup;

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DELETE FROM projects WHERE project\_num = 10;