```
-- 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);
```

```
-- 14
DELETE FROM Project_backup;


-- 15
DELETE FROM projects WHERE project_num = 10;
```