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CSCI 3287-320
Class Assignment 3

1. **CREATE SCHEMA** ClassAssignment;

2. **CREATE TABLE** Project (
   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 **MODIFY** project_num INT(10) NOT NULL PRIMARY KEY
   AUTO_INCREMENT=10

4. **ALTER TABLE** Project **ALTER COLUMN** project_budget DECIMAL(10,2)

5. **INSERT INTO** Project (project_code, project_title, first_name, last_name,
   project_budget)
   VALUES ('PC01', 'DIA', ' John', 'Smith', 'AUTO_INCREMENT=10'**),**
   ('PC02', 'CHF', 'Tim', 'Cook', 'AUTO_INCREMENT=10'**),**
   ('PC03', 'AST', 'Rhonda', 'Smith', 'AUTO_INCREMENT=10'**)**

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 (**DECIMAL(10,
   2) > 10000**)**
   ii) ALTER TABLE PayRoll **ADD CONSTRAINT** job_desc **SET DEFAULT** 'Data
   Analyst'
   iii) ALTER TABLE PayRoll **ADD COLUMN** pay_date(DATE) **AFTER** job_desc

8. **ALTER TABLE** PayRoll **ADD FOREIGN KEY (**job_id**) REFERENCES** Project(project_num)

9. **INSERT INTO** PayRoll(job_id, pay_date, emp_pay)
   ('10', 'current date', '12000.99'**),**
   ('11', 'current date', '14000.99'**),**
   ('12', 'current date', '16000.99'**)**

10. **UPDATE** PayRoll **SET** emp_pay*0.10 **WHERE** employee_num = 2

11. **SELECT * INTO** Project_Backup **FROM** Project **WHERE** last_name = 'Smith'

12. **CREATE VIEW** PayRoll_View **SELECT** job_id, job_desc, pay_date **FROM** PayRoll **WHERE** job_id >10

13. **CREATE INDEX** pay_date **ON** PayRoll

14. **TRUNCATE TABLE** Project_Backup

15. **BEGIN TRY**
        DELETE FROM Project **WHERE** project_num = 10;
    END TRY
    BEGIN CATCH
        SELECT
            ERROR_MESSAGE() **AS** ErrorMessage;
    END CATCH;
    GO