```
# Name: Sahib Bajwa
 3
       # Question 1
       CREATE SCHEMA ClassAssignment;
       # Question 2
 7 • ⊖ CREATE TABLE Project (
         'project_num' INT(10) NOT NULL PRIMARY KEY,
 8
         `project_code` CHAR(4),
10
         `project_title` VARCHAR(45),
         `first_name` VARCHAR(45),
11
12
         `last_name` VARCHAR(45),
13
         `project_budget` DECIMAL(5,2)
14
15
16
       #desc Project;
17
18
       # Question 3
19 •
       ALTER TABLE Project MODIFY COLUMN project_num INT(10) AUTO_INCREMENT;
20 •
       ALTER TABLE Project AUTO_INCREMENT = 10;
21
22
       #desc Project;
23
24
       # Question 4
25 •
       ALTER TABLE Project MODIFY COLUMN project_budget DECIMAL(10,2);
26
27
       #desc Project;
28
29
       # Question 5
30 •
       INSERT INTO Project (project_code, project_title, first_name, last_name, project_budget)
31
          ('PC01', 'DIA', 'John', 'Smith', 10000.99),
32
33
           ('PC02', 'CHF', 'Tim', 'Cook', 12000.50),
34
           ('PC03', 'AST', 'Rhonda', 'Smith', 8000.40);
35
       #SELECT * FROM Project;
36
37
38
       # Question 6
39 \bullet \ominus CREATE TABLE PayRoll (
40
         `employee_num` INT(10) PRIMARY KEY AUTO_INCREMENT,
41
         'job_id' INT(10) NOT NULL,
         `job_desc` VARCHAR(40),
42
         `emp_pay` DECIMAL(10,2)
43
44
45
46
       #desc PayRoll;
47
48
       # Question 7
49 •
       ALTER TABLE PayRoll ADD CONSTRAINT ValGrt CHECK (emp_pay > 10000);
50 •
       ALTER TABLE PayRoll ALTER job_desc SET DEFAULT 'Data Analyst';
51 •
       ALTER TABLE PayRoll ADD pay_date DATE AFTER job_desc;
52
53
       #desc PayRoll;
54
55
       # Question 8
56 •
       ALTER TABLE PayRoll ADD CONSTRAINT FK A B FOREIGN KEY (job id) REFERENCES Project (project num);
57
58
       # Question 9
59 • INSERT INTO PayRoll (job_id, pay_date, emp_pay)
60
61
          (10, curdate(), 12000.99),
62
           (11, curdate(), 14000.99),
```

```
(12, curdate(), 16000.99);
 63
 65
        #SELECT * FROM PayRoll;
 66
        # Question 10
 67
 68 •
       UPDATE PayRoll SET emp_pay = (emp_pay + (emp_pay * 0.1)) WHERE employee_num = 2;
 69
        #SELECT * FROM PayRoll;
 70
 71
 72
        # Question 11
 73 • \ominus CREATE TABLE Project_backup (
        `project_num` INT(10) NOT NULL PRIMARY KEY,
 74
          `project code` CHAR(4),
 75
 76
          `project_title` VARCHAR(45),
         `first_name` VARCHAR(45),
 77
         `last name` VARCHAR(45),
 78
 79
         `project_budget` DECIMAL(5,2)
 80
 81
 82 •
       ALTER TABLE Project_backup MODIFY COLUMN project_num INT(10) AUTO_INCREMENT;
        ALTER TABLE Project_backup AUTO_INCREMENT = 10;
 84 •
        ALTER TABLE Project_backup MODIFY COLUMN project_budget DECIMAL(10,2);
 85
 86 •
       INSERT INTO Project_backup SELECT project_num, project_code, project_title, first_name, last_name, project_budget FROM Project WHERE last_name = 'Smith';
 87
 88
        #Select * FROM Project_backup; Select * From Project;
 89
 90
        # Question 12
 91 •
       CREATE VIEW PayRoll_View AS
 92
           Select job_id, job_desc, pay_date FROM PayRoll WHERE job_id > 10;
 93
                  94
        #Select * FROM PayRoll_View; Select * FROM PayRoll;
 95
 96
        # Ouestion 13
 97 •
       CREATE INDEX IX_Name ON PayRoll (pay_date);
 98
        #SHOW INDEX FROM PayRoll;
 99
100
101
        # Question 14
102 •
       TRUNCATE project_backup;
103
104
        #Select * FROM Project_backup; Select * FROM Project;
105
106
        # Question 15
107 •
       DELETE FROM Project WHERE project_num = 10;
108
109
        # This script fails because we cannot delete the row from the parent table while there is a reference to the row in the child table.
        # We need either remove that row in the child table OR temporarily stop the foreign key check while we delete the row in the parent table.
110
111
112
        # Question 16
113 • SET FOREIGN_KEY_CHECKS = 0;
114 • DELETE FROM Project WHERE project_num = 10;
115 • SET FOREIGN KEY CHECKS = 1;
117
        #SELECT * FROM Project;
```