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Activity# 1

1. Designing database:

2. Identify the most appropriate SQL command

```
    CREATE – this command is used to create a table
    ALTER – this command is used to update default values within a table
    DELETE – this command is used to delete records from a table
    GRANT – this command is used to provide permissions to users
    DROP – this command is used to delete tables
```

Activity# 2

1. course_t TABLE

```
INSERT INTO course_t (course_id, course_name, credits)

VALUES (101, "Introduction to Databases", 3);

UPDATE course_t
SET credits = 4
WHERE course_id = 101;

CREATE USER 'ex_user'@'localhost'
IDENTIFIED BY 'password';

REVOKE SELECT ON course_t FROM 'example'@'localhost';
```

2. student_t TABLE

```
CREATE TABLE student t (
       stud_id INT PRIMARY KEY NOT NULL,
       stud_name VARCHAR(50) NOT NULL,
       stud_sec VARCHAR(30) NOT NULL,
       stud_prog VARCHAR(20),
       stud_yr VARCHAR(5)
);
ALTER TABLE student_t
ADD COLUMN email VARCHAR(100);
INSERT INTO student_t (stud_id, stud_name, stud_sec, stud_prog, stud_yr)
VALUES (101, "Alice", "CS", "1");
SELECT * FROM student_t
WHERE stud_sec = "A";
DELETE FROM student_t;
CREATE TABLE grades t (
       grade_id INTEGER PRIMARY KEY,
       stud_id INTEGER,
       FOREIGN KEY (stud_id) REFERENCES student_t(stud_id)
);
UPDATE student_t
SET stud_yr = "2"
WHERE stud_id = 101;
```