CRUD

UPDATE course SET duration=90;

TRANSACTION BEGIN

Update performs on id=1

Update performs on id=2

Update performs on id=3

COMMIT

UPDATE course SET name = 'JavaScript';

TRANSACTION BEGIN

Update performs on id=1

Update performs on id=2

ROLLBACK

Successful transaction

Failed transaction

CREATE

- -- Insert query [Date Format YYYY-MM-DD]
 INSERT INTO course(name, description, code, duration, starts_at)
 VALUES ('Python', 'A course for beginner', 'PY-2024-1', 180, '2024-06-16');
- multi insert

INSERT INTO course(name, description, code, duration, starts_at)
VALUES
('Python', 'A course for beginner', 'PY-2024-1', 180, '2024-06-16'),
('React', 'A Frontend course for beginner', 'RCT-2024-1', 180, '2024-06-16'),
('JavaScript', null, null, null, null);

RETRIEVE

all column selection for all row

SELECT * FROM course;

specific column selection for all row

name, starts_at FROM course;

FROM course;

SELECT

Using AliasSELECTname AS "Course Name",starts at AS "Shuru hobe"

- select all column for a specific id

select * from course WHERE id = 7;

- Select specific column for a specific id

select name,code from course WHERE id = 7;

Update

- one row update for one columnUPDATE courseSET name='Java Script'WHERE id = 5;
- multi column update for one rowUPDATE courseSET name='Java Script', starts_at = '2024-07-20'WHERE id = 5;
- whole row updateUPDATE courseSET duration=90;

DELETE

- Delete all rows (Dangerous)DELETE FROM course;
 - single deleteDELETE FROM courseWHERE id = 8;