Chit no.1

Problem Statement: Design and Develop SQL DDL statements on Schema given.Schema: employee\_master (emp\_id,first name,middle,last name,department,manager id.)branch\_master (branch id ,branch name) 1. Insert records in branch\_master 2. Insert records in employee\_master. 3. Create index on emp\_name column of employee\_master. 4. Create a view containing employee details

Code:

-- Create branch\_master table

CREATE TABLE branch\_master (

branch\_id INT PRIMARY KEY,

branch\_name VARCHAR(100) NOT NULL

);

-- Create employee\_master table

CREATE TABLE employee\_master (

emp\_id INT PRIMARY KEY,

first\_name VARCHAR(50) NOT NULL,

middle\_name VARCHAR(50),

last\_name VARCHAR(50) NOT NULL,

department VARCHAR(100) NOT NULL,

manager\_id INT,

branch\_id INT,

FOREIGN KEY (manager\_id) REFERENCES employee\_master(emp\_id),

FOREIGN KEY (branch\_id) REFERENCES branch\_master(branch\_id)

);

INSERT INTO branch\_master (branch\_id, branch\_name) VALUES

(1, 'Headquarters'),

(2, 'East Branch'),

(3, 'West Branch'),

(4, 'North Branch'),

(5, 'South Branch');

INSERT INTO employee\_master (emp\_id, first\_name, middle\_name, last\_name, department, manager\_id, branch\_id) VALUES

(101, 'Alice', NULL, 'Johnson', 'Engineering', NULL, 1),

(102, 'Bob', 'K', 'Smith', 'Marketing', 101, 2),

(103, 'Charlie', NULL, 'Brown', 'Sales', 101, 3),

(104, 'Daisy', 'M', 'Adams', 'Human Resources', 101, 4),

(105, 'Edward', 'J', 'Williams', 'Finance', 102, 5);

CREATE INDEX idx\_employee\_name ON employee\_master (first\_name, middle\_name, last\_name);

CREATE VIEW employee\_details AS

SELECT

e.emp\_id,

e.first\_name,

e.middle\_name,

e.last\_name,

e.department,

e.manager\_id,

b.branch\_name

FROM

employee\_master e

JOIN

branch\_master b ON e.branch\_id = b.branch\_id;

Alternate code

-- Table for employee\_master

CREATE TABLE employee\_master (

emp\_id NUMBER PRIMARY KEY,

first\_name VARCHAR2(50),

middle\_name VARCHAR2(50),

last\_name VARCHAR2(50),

department VARCHAR2(50),

manager\_id NUMBER,

branch\_id NUMBER,

CONSTRAINT fk\_branch\_id FOREIGN KEY (branch\_id) REFERENCES branch\_master(branch\_id)

);

-- Table for branch\_master

CREATE TABLE branch\_master (

branch\_id NUMBER PRIMARY KEY,

branch\_name VARCHAR2(100)

);

INSERT INTO branch\_master (branch\_id, branch\_name) VALUES (1, 'New York');

INSERT INTO branch\_master (branch\_id, branch\_name) VALUES (2, 'Los Angeles');

INSERT INTO branch\_master (branch\_id, branch\_name) VALUES (3, 'Chicago');

INSERT INTO employee\_master (emp\_id, first\_name, middle\_name, last\_name, department, manager\_id, branch\_id)

VALUES (101, 'John', 'A.', 'Doe', 'Sales', NULL, 1);

INSERT INTO employee\_master (emp\_id, first\_name, middle\_name, last\_name, department, manager\_id, branch\_id)

VALUES (102, 'Jane', 'B.', 'Smith', 'Marketing', 101, 2);

INSERT INTO employee\_master (emp\_id, first\_name, middle\_name, last\_name, department, manager\_id, branch\_id)

VALUES (103, 'Alice', NULL, 'Brown', 'HR', NULL, 1);

CREATE INDEX idx\_emp\_first\_name ON employee\_master (first\_name);

CREATE VIEW employee\_details AS

SELECT

e.emp\_id,

e.first\_name || ' ' || NVL(e.middle\_name, '') || ' ' || e.last\_name AS full\_name,

e.department,

e.manager\_id,

b.branch\_name

FROM

employee\_master e

JOIN

branch\_master b ON e.branch\_id = b.branch\_id;

SELECT \* FROM employee\_details;

DESCRIBE employee\_details; --view--

SELECT text FROM user\_views WHERE view\_name = 'EMPLOYEE\_DETAILS';