KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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DBMS LAB ASSIG 1

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- Branch :CSE


```
-- 1. Create tables for - Student(student_id,
-- first_name, last_name, dept, Date_of_birth, gender,
-- religion), Employee, Product, Customer, and Account.
-- Identify relevant attributes for each table and make
-- sure each table has at least four columns. Ensure
-- each table has a _ID column e.g. Employee should
-- have EMPLOYEE_ID column, Student should have
-- STUDENT_ID column etc.

-- 2. Describe each table.

-- 3. Insert at least 5 distinct rows to each table.

-- 4. Fetch all data from the respective tables.

-- STUDENT TABLE:-
CREATE TABLE Student (
    student_id INT,
    first_name VARCHAR(20),
    last_name VARCHAR(20),
```

```
    dept VARCHAR(30),
    date_of_birth DATE,
    gender VARCHAR(1),
    religion VARCHAR(10)
);

INSERT INTO Student VALUES
    (11, 'Jake', 'Brown', 'Computer Applications', '2000-01-19', 'M', 'Christian'),
    (12, 'Priya', 'Agarwal', 'Fine Arts', '2001-12-24', 'F', 'Hindu'),
    (13, 'Shreya', 'Jain', 'Bussiness Studies', '2000-04-20', 'F', 'Jain'),
    (14, 'Adnan', 'Abraham', 'Computer Science', '2002-01-24', 'M', 'Muslim');


CREATE TABLE EmployeeA1
(
    employee_id INT,
    emp_name VARCHAR(20),
    emp_dept VARCHAR(30),
    emp_salary INT
);

INSERT INTO EmployeeA1 VALUES
    (1416, 'George Bay', 'Developer', 50000),
    (1381, 'James Scott', 'Finance',80000),
    (2384, 'Lindsay Ray', 'Sales', 60000),
    (1448, 'Kyle Mathew', 'Marketing', 60000),
    (3892, 'Sam Henry', 'Management',90000);

SELECT * FROM EmployeeA1;

SELECT employee_id, emp_name FROM EmployeeA1;

CREATE TABLE Product
(
    product_id INT,
    prod_name VARCHAR(20),
    prod_brand VARCHAR(30),
    prod_cost DECIMAL
);

INSERT INTO Product VALUES
    (2090, 'Handbag', 'Allen Solly',9000.00),
    (1780, 'Leather Shoes', 'Metro', 8500.00),
    (4671, 'Sneakers', 'Adidas', 5750.00),
    (2453, 'Belt', 'Fila', 8800.00),
    (5471, 'Coat', 'Van Heusen', 6600.00);

SELECT * FROM Product;

CREATE TABLE Customer
(
    customer_id INT,
    cust_name VARCHAR(40),
    cust_phno VARCHAR(10),
```

```
    item_purch VARCHAR(30)
);

INSERT INTO Customer VALUES
    (441, 'Sam Fischer',3928108734, 'Sneakers'),
    (442, 'Linda Roy',7782736213, 'Slippers'),
    (443, 'Carry Styles',8916372812, 'Belt'),
    (444, 'John Dan',8902378454, 'Leather Shoes'),
    (445, 'Jane Smith',2048301947, 'Long Sleeves');

SELECT * FROM Customer;

CREATE TABLE accounts
(
    account_no INT,
    acc_name VARCHAR(40),
    acc_bal DECIMAL,
    acc_bank VARCHAR(6)
);

INSERT INTO accounts VALUES
    (13212, 'James Matt',50150.00, 'SBI'),
    (21414, 'George Payne',70000.00, 'PNB'),
    (12017, 'Ashwin Thomas',30930.00, 'ICICI'),
    (31232, 'Eric Cherub',67402.00, 'HDFC'),
    (76766, 'Raymond Bay',70920.00, 'SBI');

-- Q6 Create table YOUTH (f_name, l_name, sex, DOB) from the Student table.
CREATE TABLE Youth AS SELECT first_name, last_name, gender, date_of_birth FROM Student;

ALTER TABLE Youth CHANGE first_name f_name VARCHAR(20);
ALTER TABLE Youth CHANGE last_name 1_name VARCHAR(20);
ALTER TABLE Youth CHANGE gender sex VARCHAR(1);
ALTER TABLE Youth CHANGE date_of_birth DOB DATE;

SELECT * FROM Youth;

--Q7 Delete all data from the customer table.
DELETE FROM Customer WHERE customer_id=441;
DELETE FROM Customer WHERE customer_id=442;
DELETE FROM Customer WHERE customer_id=443;
DELETE FROM Customer WHERE customer_id=444;
DELETE FROM Customer WHERE customer_id=445;
SELECT * FROM Customer;
-- Q8. Delete the Account table.
DROP Table accounts;



-- 9. Fetch the f_name and DOB from YOUTH table.
Select f_name,DOB from youth;

-- 10. Insert a new record into the Youth table. And keep NULL value in the l_name
column.
```

```sql
INSERT INTO Youth VALUES ('Bruno',NULL, 'M', '2002-10-10');

SELECT * FROM Youth;

-- 11. Insert a new record into the Employee table. And keep NULL value in the
employee_id
-- column.
INSERT INTO EmployeeA1 VALUES (NULL, 'Brian The Dog', 'Accounting',7512000);
SELECT * FROM EmployeeA1;

-- 13. Increase the size of the dept field in the student table by 10.
ALTER TABLE Student MODIFY dept VARCHAR(40);
-- 14. Add a column ph_no in the student table.
ALTER TABLE Student ADD COLUMN ph_no VARCHAR(10);

-- 15. Drop the religion attribute from the student table
ALTER TABLE Student DROP COLUMN religion;

-- 16. Rename the student_id field to roll_no in the student table.

ALTER TABLE Student CHANGE student_id roll_no INTEGER;

-- 17. Change the datatype and size of the product id column in the product table.

ALTER TABLE Product MODIFY product_id VARCHAR(10);
```

OUTPUTS :-

employeea1

```sql
SELECT * FROM EmployeeA1
```

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	employee_id int	emp_name varchar(20)	emp_dept varchar(30)	emp_salary int
1	1416	George Bay	Developer	50000
2	1381	James Scott	Finance	80000
3	2384	Lindsay Ray	Sales	60000
4	1448	Kyle Mathew	Marketing	60000
5	3892	Sam Henry	Management	90000
6	1416	George Bay	Developer	50000
7	1381	James Scott	Finance	80000
8	2384	Lindsay Ray	Sales	60000
9	1448	Kyle Mathew	Marketing	60000
10	3892	Sam Henry	Management	90000

employeea1

```
SELECT employee_id, emp_name FROM EmployeeA1
```

Input To Search Data

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	employee_id int	emp_name varchar(20)
1	1416	George Bay
2	1381	James Scott
3	2384	Lindsay Ray
4	1448	Kyle Mathew

PRODUCT TABLE

product

```
SELECT * FROM Product
```

Input To Search Data

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	product_id int	prod_name varchar(20)	prod_br varchar	
1	2090	Handbag	Allen Solly	9000
2	1780	Leather Shoes	Metro	8500
3	4671	Sneakers	Adidas	5750
4	2453	Belt	Fila	8800

CUSTOMER TABLE

customer

```
SELECT * FROM Customer
```

Input To Search Data

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	customer_id int	cust_name varchar(40)	cust_phno varchar(10)	item_purch varchar(30)
1	441	Sam Fischer	3928108734	Sneakers
2	442	Linda Roy	7782736213	Slippers
3	443	Carry Styles	8916372812	Belt
4	444	John Dan	8902378454	Leather Shoes
5	445	Jane Smith	2048301947	Long Sleeves

YOUTH TABLE

youth

```
SELECT * FROM Youth
```

Input To Search Data

Free

	f_name varchar(20)	l_name varchar(20)	sex varchar(1)	DOB date
1	Jake	Brown	M	2000-01-19
2	Priya	Agarwal	F	2001-12-24
3	Shreya	Jain	F	2000-04-20
4	Adnan	Abraham	M	2002-01-24

AFTER DELETING FROM CUSTOMER TABLE

```
DELETE FROM Customer WHERE customer_id=441;
DELETE FROM Customer WHERE customer_id=442;
DELETE FROM Customer WHERE customer_id=443;
DELETE FROM Customer WHERE customer_id=444;
DELETE FROM Customer WHERE customer_id=445;
```

customer

```
1 SELECT * FROM Customer
```

Input To Search Data

Free

customer_id int	cust_name varchar(40)	cust_phno varchar(10)	item_purch varchar(30)

F_name ,DOB from youth table

youth

```
1 Select f_name,DOB from youth
```

Input To Search Data

f_name varchar(20)	DOB date
Jake	2000-01-19
Priya	2001-12-24
Shreya	2000-04-20
Adnan	2002-01-24

EMPLOYEE TABLE

employeea1

```
SELECT * FROM EmployeeA1
```

Input To Search Data

Free

	employee_id int	emp_name varchar(20)	emp_dept varchar(30)	emp_salary int
1	1416	George Bay	Developer	50000
2	1381	James Scott	Finance	80000
3	2384	Lindsay Ray	Sales	60000
4	1448	Kyle Mathew	Marketing	60000

YOUTH TABLE

youth

```
SELECT * FROM Youth
```

Input To Search Data

Free

	f_name varchar(20)	l_name varchar(20)	sex varchar(1)	DOB date
1	Jake	Brown	M	2000-01-19
2	Priya	Agarwal	F	2001-12-24
3	Shreya	Jain	F	2000-04-20
4	Adnan	Abraham	M	2002-01-24

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