

IT3223 – Advanced Database Management Systems

Lab 05: SQL Indexes – Practical Work

Practical Tasks:

Task 1: Create Table and Insert Data

1. Create a table named CUSTOMERS:

```
CREATE TABLE CUSTOMERS (  
    ID INT NOT NULL,  
    NAME VARCHAR(15) NOT NULL,  
    AGE INT NOT NULL,  
    ADDRESS VARCHAR(25),  
    SALARY DECIMAL(10, 4),  
    PRIMARY KEY(ID)  
);
```

2. Insert at least 20 rows of sample data into CUSTOMERS:

```
INSERT INTO CUSTOMERS VALUES  
(1, 'Ramesh', 32, 'Ahmedabad', 2000),  
(2, 'Khilan', 25, 'Delhi', 1500),  
(3, 'Kaushik', 23, 'Kota', 2000),  
...  
-- Continue up to 20 rows
```

Task 2: Create Indexes

1. Create a **single-column index** on NAME.
2. Create a **composite index** on NAME and AGE.
3. View all indexes on the table:

Task 4: Unique Index

1. Create a **UNIQUE INDEX** on the ADDRESS column:
2. Try inserting a duplicate address and observe the result.

Task 5: Drop Indexes

1. Drop `idx_name`:
2. Drop `idx_name_age`:
3. View remaining indexes: