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Class:- BCA-CTIS-5th Sem

SECTION:- C

ROLL NO:- 22963

Title:-

Handling Databases in Android

Subtitle: -

Android Database Class and Database API

Introduction

- **Definition:** A database stores, organizes, and manages data systematically.
- **Importance:** Essential for persistent data storage in applications.

SQLite in Android

- **Definition:** SQLite is a **lightweight** database embedded within Android.
- **Importance:** Provides a robust solution for local data storage.

Android Database Class

- **Definition:** Core class that handles database creation and management.
- **Importance:** Facilitates various database operations efficiently.

SQLiteOpenHelper

- **Definition:** Manages database creation, connection, and version management.
- **Importance:** Simplifies database management tasks and lifecycle handling.

Creating Database

- **Definition:** Steps and methods to create a new database in Android.
- **Importance:** Fundamental for initializing data storage in applications.

Opening Database

- **Definition:** Accessing an existing database for read/write operations.
- **Importance:** Enables interaction with stored data.

Inserting Data

- **Definition:** Adding new records to the database using SQL commands.
- **Importance:** Vital for data entry and populating the database.

Reading Data

- **Definition:** Retrieving data from the database using queries
- **Importance:** Essential for displaying and processing stored information



Updating Data

- **Definition:** Modifying existing records in the database.
- **Importance:** Keeps data current and accurate.

Deleting Data

- **Definition:** Removing records from the database.
- **Importance:** Helps maintain data relevance and manage storage space.

Using Cursors

- **Definition:** Iterating over query results to process data.
- **Importance:** Facilitates reading and manipulating query results.

Transactions

- **Definition:** Grouping operations to ensure atomicity, consistency.
- **Importance:** Ensures reliable and consistent database operations.

Database Security

- **Definition:** Protecting data from unauthorized access and breaches.
- **Importance:** Critical for maintaining data integrity and privacy.

Summary

- **Definition:** Recap of key techniques for database handling in Android.
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- **Importance:** Reinforces learning and highlights important concepts.

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**THANK
YOU**