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CSE B

Assignment No. 5 Unit No. 5 Date :

1. Explain the procces of processing mongo DB in Node.js?

Ans In order to access mongo DB Database we need to install mongo DB driver. In install native mongo db driver using Npm, open command prompt and write the following command to install mongo DB driver in your application Npm install mongo db save

This will include mongodb folder inside node module folder Now, start the mongo db server using following command.

Mongodb - db path c:/my node.js console App/my mongo DB connecting MongoDB

The following example demonstrate connecting to the local mongo DB database

app.js

copy

```
var mongo client = require('mongo db') mongo client;
mongo client. connect ('mongod DB:// localhost: 27/my DB',
                         function (err. db) {
if(er) throw err;
});
```

In the above ex, we have imported mongo db module and got the reference of mongoclient object. Then we used mongoclient. connect() method to get the reference of specified mongodb database. The specified url 'mongo db:// local host: 27017/my DB) points to your local mongo DB otherwise it creates a new database

2. Explain the process of inserting a document with an explain?

Ans The following example demonstrates inserting documents into mongo DB database

app.js

```
var mongo client = require ('mongo DB') mongo client;
mongo client. connect ("mongo db://localhost:27017/
                          my Db"; function (err, db) {
db. collection ('persons') function (err, collection) {
collection. insert ({id; 1 firstname: 'steve'; last name: 'Jobs'});
collection. insert ({id; 2 firstname: 'Bill'; lastname: 'Gates'});
collection. insert ({id; 3 firstname : 'James' last name: 'Bond'});
db. collection ('persons') . count (function( err count) {
        if( err) throw err;
        console. log ('Total rows:' + count);
});
});
});
```

In above example db collection() method creates or gets the reference of the specified collection. collection is similar to table in relational database.

3. Explain the process of creating a mongoDB database?

Ans To create a database in mongo DB, first create a mongo client and specify connection URL with the correct ip address and name of database

Ex:-

Create a folder named "mongo database" as a database suppose you create it on desktop. create a JS file named "create database. js" within the folder and having the code

```
var mango client = require('mongo db'/ mongoclient;
var url: "mongodd :// localhost : 27017 /mongo database"
mongo client. connect (url, function (err,db){
      if (err) throw err;
   console. log ("database created:");
db.close();
});
```

4. Explain a. updating / delete document
   b. query database with example

Ans a) update / delete document

The following example demonstrate updating (or deleting an existing documents (records)

app.js

```
var mango client = require ("mongo db'/mongo client;
mongo client connect ("mongo db :// local host: 27013/
                    my db, function (err,db){
db.collection ("persons", function (err, collection) {
collection update ({id:1}, {$ set : } firstname' 'Jame',
                    lastname: 'Gosling }} {w:1} function
 (err result){
 if (err) throw err;
console. log ('document update successfully');
collection remove ({id: 2}, {w:1}, function (err, result) {
if (err) throw err;
console.log ('Document Removed successfully');
});
});
});
```

b) Query database:-

The following example demonstrate executing a Query. in the mongo DB Database

app.js

```
var mongo client = require('mongodb').mongoclient;
mongoclient. connect ("mongodb://localhost:
                        27017/my DB" function) {
db collection ('Person', function(err, collection){
    collection find() to array (function (err items) {
    if(err) throw err;
    console. log(items);
});
});
});
```

So, In the way you can connect and access mongoDB database