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ASSIGNMENT-02

- * Date of completion: 10th August 2020
- Date of Submission: 14th September 2020.
- * ritle: Myspi
- * Problem Statement: Study of Open Source relational database: MySQL
 - + objective: To learn and understand the basic database architecture & the various compenents of its.
 - * S/W & H/W Requirements: MySQL, Windows 10 (64-bit)
 Mouse, Keyboard, Monitor.

* THEORY:

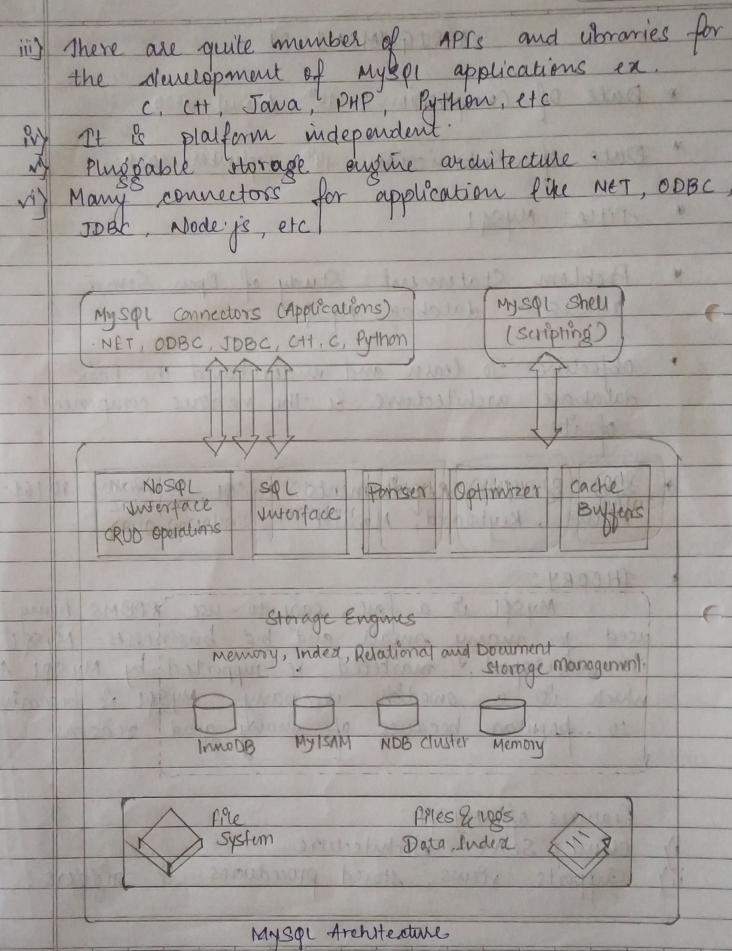
Myspi is a fast, easy-to-use RDBMs being used for many small and big businesses. Myspi is alareloped, marketed be supported by Myspi AB, which is a swedish company. Myspi is becoming so popular because of many good reasons.

Features of MySpl: client | Server Architecture Supports views, stored procedures & toingers

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*	Comparison but	ween Myspe and Oracle	· · · · · · · · · · · · · · · · · · ·
	Companison	MySQL	Oracle
۹)	Cast	source It is Wensed under the and	for commercial purposes. but it provides the
00	Real al Tit	hucol datalague la mad	expues édition for free
· N	Scalability	for small & big business	used for every large scale deployments:
000	Partitioning	et does not support data partitioning	of supports stata poutstibring.
9V>	Security	Je required a username, passward, & nort to accus a database	username, password, and profile validation to access the slatobase
v >	Systemlype	the static elystem	botu stalic & algnormic system.

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Syntax create user 'newwer' @'weathart' Edutified by

user panword'

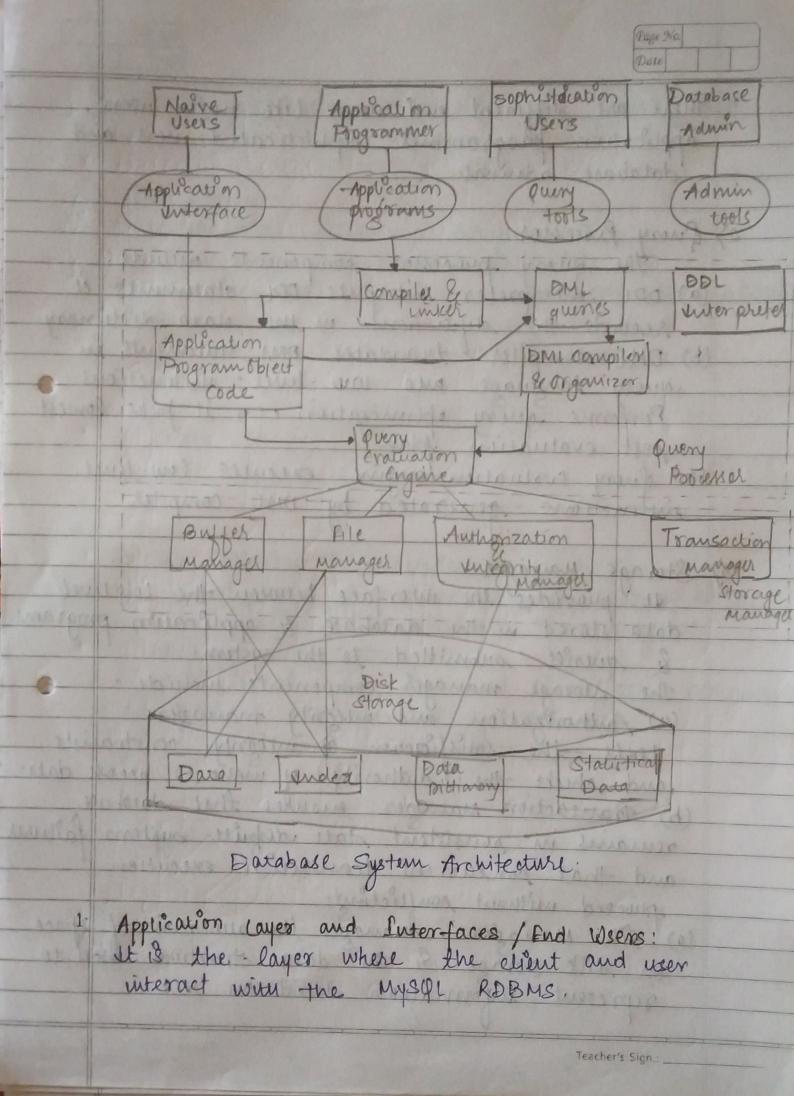
granting privileges in MySPL:

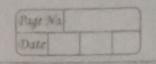
Specific privileges: Syntax: frant au permission 1,2 on database name. table name to 'wer' @ 'wood host'

Syntaa: grant au peubileges on db name * to

Grant privileges on all databases: Syntax: grant all perivileges on + + to 'user'@'y.'

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There are different end users like nature users, application phogrammes, sophisticated users and database adminis

The query processor components include:

(a) DDI interpreter: interprets DDI statements be seconds the slutificans in the slata dietionary

(b) DMI scompiler: translates DMI statements in query language into 1000 level—instructions

Performs query optimization i.e., it picks lowest cost evaluation plan

(c) chary evaluation engine: executes low-level instructions generated by DMI compiler

It provides the interface between the lowlevel data stored in the database be application programs be quen'es outmitted to the system.

The storage manager components include: n

(a) Authorization and integrity manager:

tests the satisfication of integrity constraints

and checks the fauthority of west to access data.

(b) Pransaction managers: enough that database.

remains in consistent state adoptite system fallows and that concurrent transaction execution

puaceed without conflicting.

(c) File managers: manager the auscouring of space on disk storage & the data structure used to

represent information stored on dik

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(d) ouffer manager: responsible for fetching data from disk storage to main memory.

H) Dist Horage:

et contains following components: a) Data files: It stores actual data

(a) Data files:

(b) Data dictionary: contains information about the structure of any database object it is repository of hypometion that governs the metadata. metadata.

it puorides faster retorenal of (e) Indies: edata item

* conclusion:

is we explored the architecture of MySQL iis we explored the different beatures of mySQL iiis we studied the structure of a database manogement system

in) we Rearnt the functions of different component of database management system D