#Indexes:

		EMP		1
EMPNO	ENAME	SAL	DEPNO.	Rowid
5	A	5000		2007
4	A	6000		2002
1	C	7000		x003
2	P	9000	2	7005
3	F	8000	2	x006.

- · Present in all ROBMS, all DBMS and some progremmin language also.
 To speed up the searching.

 - · select * from emp where empno = 1;
 - · To speed up the select statement with a where clause

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Inbuit cento matic Indemp Rowid. X001 X002 X003 X004 1005 · indexes are automatically invoked by Mysg Land when neguired. · select from emp where empno = 1; 1) read 2) Compile 4) execute

· Execution plan: - plan (recated by Myssg as how it it is going to execute the select statement

Create index...;

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· In other RDBM5: insert lupdate Idelete. REINDEX;

- · indexes are automatically updated by Mysql for all DML operation.
 - · select * from emp where ename = 'D'.
- · select * from emp where sal > 7000;
- · no upper limit on the number of indexes pertab · larger the no of indexes, the slower would be

the DML operations.

· you cannot index texts blob

- · dublicate values are not store inaninder
- · null volues are not settored in index

· select + from emp where empho is null; · select * from emp where empno = 0; · Select * from emp where empho · select + from emp where empno=2 and saltsooo; · if you have 2 or more independent columns in 0 Where clauses, then create seperate indexes for each column; Mysgl will use both the indexes as and when required, · select * from emp where dept-no=1 and empho=1 · Com posite index:-Combine 2 or more interdependent columns in a single index · index key: column or set of columns on whose basis the index has been created. · you can combine upto 32 column in a compositie index key. IND_DEPINO-EMIPNO. Rowid Theptnoblempno. X 00 1 2002 Primory 2003 x004 7005 3 # Conditions when an index should be recuted: · if select statement has a where clause · select * Som emp where empno = 1; · select * from emp where empho = 5; . select from emp where empro- < 2; · select from emp whom empno >1; X

· if select statement retrieves < 25% of table data

· primary key and unique columns should always be indexed

(be couse it is better for searching.)

Deptho Loc. Dhame 2001 Bby TRN 2 2002 EXP 2003 cal. MK-L.

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· select dname, ename from emp, dept Where dept. deptno = emp. deptno;

· Common columns in join operations should alway be indexed.

· select * from emp where deptho = 1.

command to create index:

Create index indexname on table (column);

- · (reate index i-emp-empno on emp(empno);
- · Select * from emp where empho = 1; · create index i-emp-ename on emp(ename);
- · create index i-emp-sal on emp(sal);

#to see which all indexes are created for a particular tables;

· show indexes from emp;

to see all the indexes on all the tables In the daily bases. · Use information-schema; select *from statistics; · statistics i's a system table. · by default all indexes are in ascending order (common for all RPBMS). · Create index i-emp-empono on emplempno desc); · Create index i-orders-onum on empconum desc); # to creente composite index. · Creente index i_emp_deptno-empno on emp(deptno, empno); se condany index i-emp-deptno-empno (deptnodesc, empno) · Create index i-emp-deptho-empho on emp. (deptho desc, empho desc); # to drop the index: · drop i'nder i-emp-empno on emp; . Creente unique index i-emp-empno on emprempnos. · works like normal index · Perterm 5 one extra function; it won't allow the user to insert duplicate Values for EMPNO. Snehal Sawant # Types of indexes:-4. bitmap index 1. Normal index 2. Unique index advanced features in 3. clustered index , etc.

