

Database Systems Lab - 4

Date Field, Select with Where and Alter Table

#Create following table

```
SQL> create table student (name varchar(20), eno number(6), branchchar(3));
```

#Altering a table (Adding attribute - column to it)

```
SQL > alter table student add dob date;
```

Try inserting like

```
SQL> insert into student values ('Nilesh',1234,'CSE','1-1-91');
```

This will give error - Make note of an error.

So what's the correct way?

```
SQL> insert into student values ('Nilesh',1234,'CSE', '1991-01-31');
```

Default date format is '1991-01-31' or 'YYYY-MM-DD'

Try inserting duplicate records

```
SQL > insert into student values ('Nilesh',1234,'CSE', '1991-01-31');
```

#Your observations !!!!! Allowed or not?

Displaying or retrieval of records

```
SQL > select * from student;
```

this query will display all attributes and all records. Fulltable will be displayed

Selective attribute retrieval - Projection query

```
SQL> select eno,branch from student;
```

observe the output

Selective retrieval of records from database - WHERE Clause

SQL > select * from student where branch = 'CSE';

observe the output

WHERE with AND operator

SQL > select eno, name from student where branch = 'CSE' and dob = '1-jan-91';

Your output

WHERE with OR operator

SQL > select eno, name from student where branch = 'CSE' or eno = 1237;

observe your output

Updating table content if wrongly entered or need updation time to time.

SQL > update student set branch = 'MEC' where eno = 1237;

observe the result by displaying table content

SQL > delete from student where eno = 1235;

observe the result by displaying table content

What if we omit where clause in previous query? as in

SQL > delete from student;

Your answer –

SQL > insert into student values (9999, 1238, 'ECE', '01-JUL-67');

Would this run successfully?

Answer -

SQL > insert into student values ('Toshi', 1239, 'ECE', '01-feb-78');

Now what about this query? Successful?

Answer

SQL > insert into student values ('Trigun', 1240, 'ECE', '19-sep-89');

Would this run successfully?# Answer -

What changes we need to make to run this query successful?# Answer -

What if we violate size constraint -SQL > insert into student
values ('Kirsten',12345,'ECE','01-jul-91');

Your observations