

Programme	:	B.Tech - CSE	Semester	:	Winter 18 - 19
Course	:	Database Management Systems (Embedded Lab)	Code	:	CSE2004
Faculty	:	Prof. A. Vijayalakshmi Prof. M. Premalatha	Slot	:	L3 + L4

Ex. No. 6 18/02/19

SQL – Date Functions

1. Create table fleet_header and insert the following values:

fleet_id	day	route_id	cat_code
01	10-apr-96	101	01
02	10-apr-96	101	01
03	10-apr-96	101	01
04	10-apr-96	102	02
05	10-apr-96	102	03
06	10-apr-96	103	04

SQL> create table fleet_header(fleet_id varchar(5),day date,route_id varchar(5),

cat_code varchar(5),constraint pk_fleet primary key(fleet_id));

Table created.

SQL> insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code');

Enter value for fleet_id: 01

Enter value for day: 10-apr-1996

Enter value for route_id: 101

Enter value for cat_code: 01

old 1: insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code')

```
Name: Samriddhi Verma
Reg. No.: 16BCE1375
new 1: insert into fleet_header values('01','10-apr-1996','101','01')
1 row created.
SQL > /
Enter value for fleet_id: 02
Enter value for day: 10-apr-1996
Enter value for route_id: 101
Enter value for cat_code: 01
old 1: insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code')
new 1: insert into fleet_header values('02','10-apr-1996','101','01')
1 row created.
SQL>/
Enter value for fleet_id: 03
Enter value for day: 10-apr-1996
Enter value for route_id: 101
Enter value for cat_code: 01
old 1: insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code')
new 1: insert into fleet_header values('03','10-apr-1996','101','01')
1 row created.
SQL>/
Enter value for fleet id: 04
Enter value for day: 10-apr-1996
Enter value for route_id: 102
Enter value for cat_code: 02
old 1: insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code')
new 1: insert into fleet_header values('04','10-apr-1996','102','02')
1 row created.
```

Name: Samriddhi Verma Reg. No.: 16BCE1375 SQL>/ Enter value for fleet_id: 05 Enter value for day: 10-apr-1996 Enter value for route_id: 102 Enter value for cat_code: 03 old 1: insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code') new 1: insert into fleet_header values('05','10-apr-1996','102','03') 1 row created. SQL > /Enter value for fleet_id: 06 Enter value for day: 10-apr-1996 Enter value for route_id: 103 Enter value for cat_code: 04 old 1: insert into fleet_header values('&fleet_id','&day','&route_id','&cat_code') new 1: insert into fleet_header values('06','10-apr-1996','103','04') 1 row created. SQL> select * from fleet_header; FLEET DAY ROUTE CAT C _____ 01 10-APR-96 101 01 02 10-APR-96 101 01 03 10-APR-96 101 01 04 10-APR-96 102 02 05 10-APR-96 102 03 06 10-APR-96 103 04

6 rows selected.

2. Create table ticket_header and insert the following values: ticket_header(fleet_id, ticket_no, doi, dot, origin, destination, No_of_people, total fare, route_id)

fleet_id	ticket_no	doi	dot	origin
01	01	10-apr-96	10-may-96	madras
02	02	12-apr-96	05-may-96	madurai
03	03	21-apr-96	15-may-96	bangalore
04	04	25-apr-96	25-may-96	hyderabad
05	05	30-apr-96	30-may-96	madras

destination	No_of_people	total fare	route_id
madurai	1	60	101
madras	2	60	102
madras	4	400	101
madras	10	500	103
cochin	2	141	103

SQL> create table ticket_header(fleet_id varchar(5),ticket_no varchar(5),doi date,dot date, origin varchar(10),destination varchar(10),no_of_people number(2),total_fare number(5),route_id varchar(5),constraint pk_tno primary key(ticket_no),constraint fk_fleet foreign key(fleet_id) references fleet_header);

Table created.

SQL> insert into ticket_header values('&fleet_id','&ticket_no','&doi','&dot','&origin','&destination','&no_of_people','&total_fare','&route_id');

Enter value for fleet_id: 01

Enter value for ticket_no: 01

Enter value for doi: 10-apr-1996

Enter value for dot: 10-may-1996

Enter value for origin: madras

Enter value for destination: madurai

Enter value for no_of_people: 1

Enter value for total_fare: 60

Enter value for route_id: 101

```
Name: Samriddhi Verma
Reg. No.: 16BCE1375
old 1: insert into ticket_header values('&fleet_id','&ticket_no','&doi','&dot'
,'&origin','&destination','&no_of_people','&total_fare','&route_id')
new 1: insert into ticket_header values('01','01','10-apr-1996','10-may-1996',
'madras', 'madurai', '1', '60', '101')
1 row created.
SQL>/
Enter value for fleet id: 02
Enter value for ticket_no: 02
Enter value for doi: 12-apr-1996
Enter value for dot: 05-may-1996
Enter value for origin: madurai
Enter value for destination: madras
Enter value for no_of_people: 2
Enter value for total_fare: 60
Enter value for route_id: 102
old 1: insert into ticket_header
values('&fleet_id','&ticket_no','&doi','&dot','&origin','&destination','&no_of_people','&total_fare','&route
_id')
new 1: insert into ticket_header values('02','02','12-apr-1996','05-may-
1996', 'madurai', 'madras', '2', '60', '102')
1 row created.
SQL > /
Enter value for fleet id: 03
Enter value for ticket_no: 03
```

Enter value for doi: 21-apr-1996

Enter value for dot: 15-may-1996

Enter value for origin: banglore

Enter value for destination: madras

Enter value for no_of_people: 4

Enter value for total_fare: 400

Enter value for route_id: 101

old 1: insert into ticket_header

values('&fleet_id','&ticket_no','&doi','&dot','&origin','&destination','&no_of_people','&total_fare','&route_id')

new 1: insert into ticket_header values('03','03','21-apr-1996','15-may-1996','banglore','madras','4','400','101')

1 row created.

SQL>/

Enter value for fleet_id: 04

Enter value for ticket_no: -4

Enter value for doi: 25-apr-1996

Enter value for dot: 25-may-1996

Enter value for origin: hyderabad

Enter value for destination: madras

Enter value for no_of_people: 10

Enter value for total_fare: 500

Enter value for route_id: 103

old 1: insert into ticket_header

values('&fleet_id','&ticket_no','&doi','&dot','&origin','&destination','&no_of_people','&total_fare','&route id')

new 1: insert into ticket_header values('04','-4','25-apr-1996','25-may-1996','hyderabad','madras','10','500','103')

Name: Samriddhi Verma
Reg. No.: 16BCE1375

1 row created.

SQL>/

Enter value for fleet_id: 05

Enter value for ticket_no: 05

Enter value for doi: 30-apr-1996

Enter value for origin: madras

Enter value for origin: madras

Enter value for no_of_people: 2

Enter value for total_fare: 141

Enter value for route_id: 103

old 1: insert into ticket_header
values('&fleet_id','&ticket_no','&doi','&doi','&origin','&destination','&no_of_people','&total_fare','&route

new 1: insert into ticket_header values('05','05','30-apr-1996','30-may-1996','madras','cochin','2','141','103')

1 row created.

_id')

3. Create table ticket_detail and insert the following values:

ticket no	name	sex	age	fare
01	charu	f	24	124.000
01	latha	f	10	115.550
02	anand	m	28	107.800
02	gautham	m	28	216.000
02	bala	m	9	117.650
05	sandeep	m	30	118.000

SQL> create table ticket_detail(ticket_no varchar(5),name varchar(10),sex varchar(5),age number(5),fare number(8,4));

Table created.

SQL> alter table ticket_detail add constraint fk_tno foreign key(ticket_no) references ticket_header;

SQL> insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare');

Enter value for ticket_no: 01

Enter value for name: charu

Enter value for sex: f

Enter value for age: 24

Enter value for fare: 124.000

old 1: insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare')

new 1: insert into ticket_detail values('01','charu','f','24','124.000')

1 row created.

SQL>/

Enter value for ticket_no: 01

Enter value for name: latha

Enter value for sex: f

Enter value for age: 10

Enter value for fare: 115.550

old 1: insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare')

new 1: insert into ticket_detail values('01','latha','f','10','115.550')

Name: Samriddhi Verma Reg. No.: 16BCE1375 1 row created. SQL>/ Enter value for ticket_no: 02 Enter value for name: anand Enter value for sex: m Enter value for age: 28 Enter value for fare: 107.800 old 1: insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare') new 1: insert into ticket_detail values('02','anand','m','28','107.800') 1 row created. SQL>/ Enter value for ticket_no: 02 Enter value for name: gautham Enter value for sex: m Enter value for age: 28 Enter value for fare: 216.000 old 1: insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare') new 1: insert into ticket_detail values('02','gautham','m','28','216.000') 1 row created. SQL>/ Enter value for ticket_no: 02 Enter value for name: bala Enter value for sex: m Enter value for age: 9 Enter value for fare: 117.650 old 1: insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare') Name: Samriddhi Verma
Reg. No.: 16BCE1375

new 1: insert into ticket_detail values('02','bala','m','9','117.650')

1 row created.

SQL>/

Enter value for ticket_no: 05

Enter value for name: sandeep

Enter value for age: 30

Enter value for fare: 118.000

old 1: insert into ticket_detail values('&ticket_no','&name','&sex','&age','&fare')

new 1: insert into ticket_detail values('05','sandeep','m','30','118.000')

1 row created.

4. Display the date two months after the date of issue of the ticket.

SQL> select add_months(doi,2) from ticket_header;

ADD_MONTH

10-JUN-96

12-JUN-96

21-JUN-96

25-JUN-96

30-JUN-96

Name: Samriddhi Verma
Reg. No.: 16BCE1375

5. Display the last
SQL> select last_day (or

5. Display the last date of the month in the date of travel.

SQL> select last_day (dot) from ticket_header;
LAST_DAY(
-----31-MAY-96
31-MAY-96
31-MAY-96
31-MAY-96

6. Display the months between the date of travel and the date of issue.

SQL> select months_between (dot,doi) from ticket_header;

MONTHS_BETWEEN(DOT,DOI)

1

.774193548

.806451613

1

1

Reg. No.: 16BCE1375 7. Display the next occurrence of Friday to the date of travel. SQL> select next_day(dot,'friday') from ticket_header; NEXT_DAY(-----17-MAY-96 10-MAY-96 17-MAY-96 31-MAY-96 31-MAY-96 8. A. Display the rounded date in the year format from the day in the fleet header. SQL> select round(to_date(day,'dd-mm-yyyy'),'year')from fleet_header; ROUND(TO_ 01-JAN-96 01-JAN-96 01-JAN-96

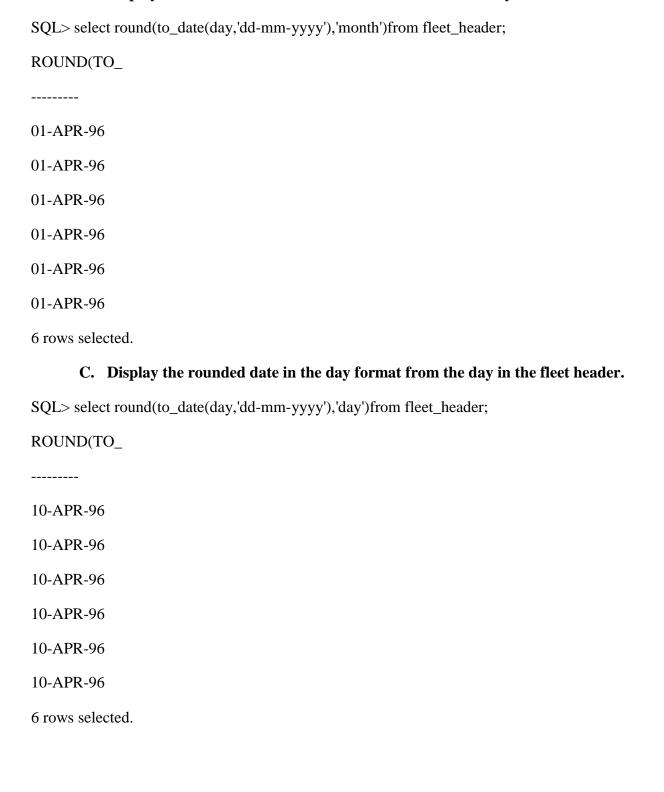
Name: Samriddhi Verma

01-JAN-96

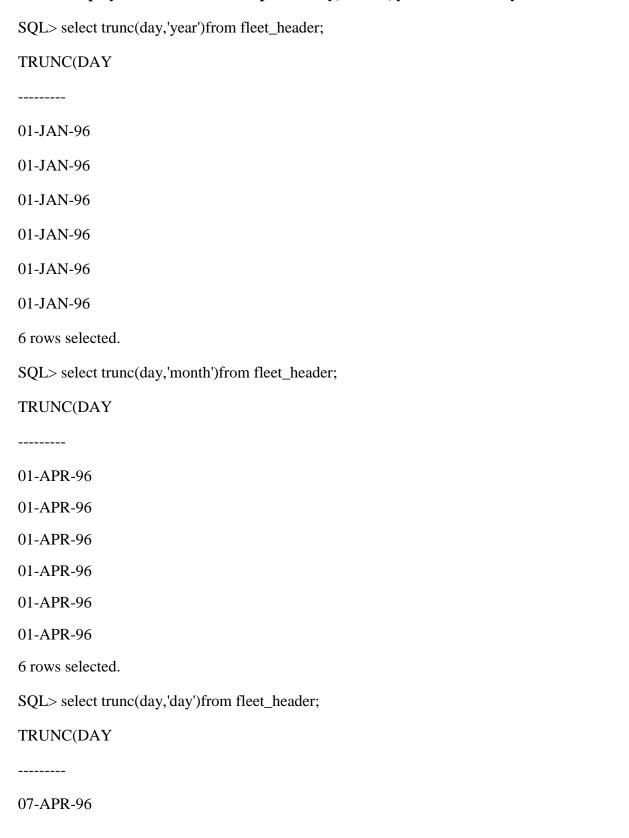
01-JAN-96

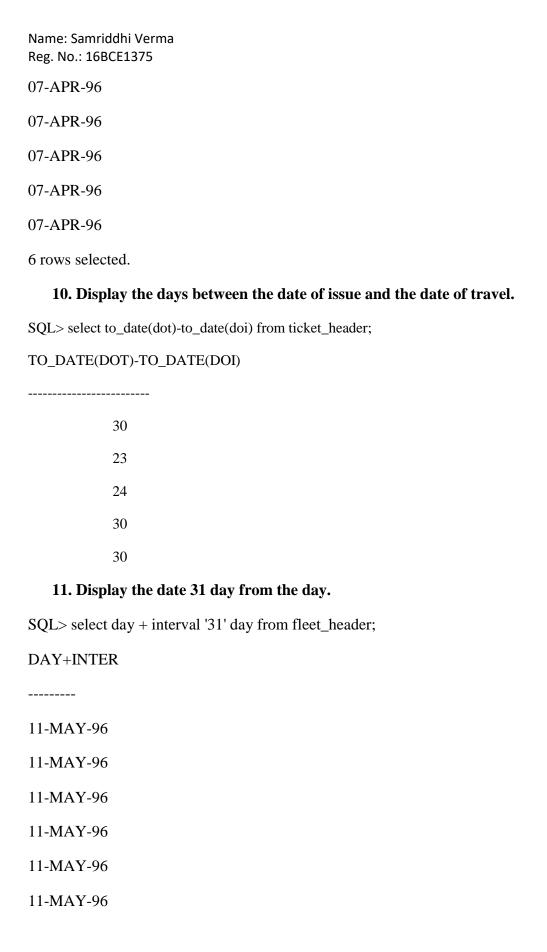
01-JAN-96

B. Display the rounded date in the month format from the day in the fleet header.



9. Display the date truncated upto the day, month, year from the day in fleet header.





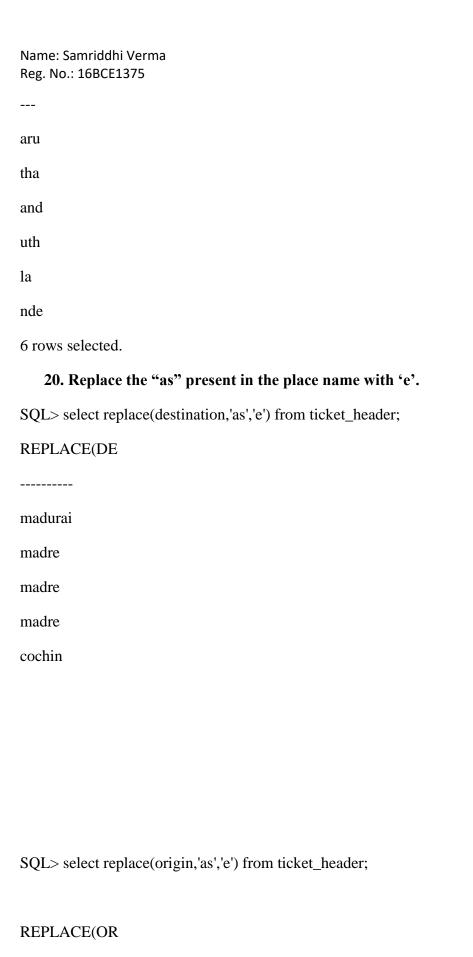
Name: Samriddhi Verma Reg. No.: 16BCE1375 12. Display the date 60 days before the day. SQL> select day + interval '-60' day from fleet_header; DAY+INTER -----10-FEB-96 10-FEB-96 10-FEB-96 10-FEB-96 10-FEB-96 10-FEB-96 6 rows selected. 13. Convert the first letter of name into capitals. SQL> select initcap(name) from ticket_detail; INITCAP(NAME) -----Charu Latha Anand Gautham Bala Sandeep 6 rows selected.

14. Convert names into the upper case.

SQL> select upper(name) from ticket_detail;

UPPER(NAME

Name: Samriddhi Verma Reg. No.: 16BCE1375
CHARU
LATHA
ANAND
GAUTHAM
BALA
SANDEEP
6 rows selected.
15. Convert all the place names into lower case.
SQL> select lower(origin) from ticket_header;
LOWER(ORIG
madras
madurai
banglore
hyderabad
madras
SQL> select lower(destination) from ticket_header;
LOWER(DEST
madurai
madras
madras
madras
cochin





21. Display the rounded value of the total fare upto 2 character.

SQL> select fare,round(fare,2) from ticket_detail;

FARE ROUND(FARE,2)

124 124 115.55 115.55 107.8 107.8 216 216 117.65 117.65 118 118

6 rows selected.

22. Display the total fare such that it contains no decimal places.

SQL> select fare,round(fare,0) from ticket_detail;

FARE ROUND(FARE,0)

Name: Samriddhi Verma Reg. No.: 16BCE1375		
124	124	
115.55	116	
107.8	108	
216	216	
117.65	118	
118	118	

6 rows selected.

23. Display the system date in the format mentioned below "27th of October 1996".

SQL> select to_char(sysdate,'ddth mm yyyy') from dual;

TO_CHAR(SYSD

19th 02 2019

24. Display "20- September-1996" in the date format.

SQL> select to_date('20-september-1996','dd month yyyy') from dual;

TO_DATE('

20-SEP-96