

Handling Dates

▪ Functions

- NOW() -Return the current date and time
 - SELECT NOW(); → 2013-09-02 18:54:42
- CURDATE() – function returning the current date
 - SELECT CURDATE(); → 2013-09-02
- Also able to extract other information:
 - SELECT TIME(NOW()); → 18:54:42
 - TIME() extracts the time portion of the expression passed
 - SELECT MINUTE(NOW()); → 54
 - SELECT DAY(NOW()); → 24
 - SELECT YEAR(CURDATE()); → 2017
 - SELECT MONTH(CURDATE()); → 8
 - SELECT DAYNAME(CURDATE()); → Thursday
 - SELECT MONTHNAME(CURDATE()); → August

How to convert date to AU format

- Default MySQL format: 'YYYY-MM-DD'
 - We insert date data in this format, we can also show in this format
- Australia format: 'DD-MM-YYYY'
- **Insertion of AU date**
 - When inserting date in AU format in MySQL [See Topic 4.1: [Topic 4.1_lab_insert.txt](#)]
`INSERT INTO RENTAL VALUES (1002, STR_TO_DATE('01-03-16', '%d-%m-%Y'), 105);`
- **Output in AU date format**
 - We need to convert this format from 'YYYY-MM-DD'
 - For example, convert today's date to AU format
`SELECT DATE_FORMAT(CURDATE(), '%d/%m/%Y') AS 'Today';`

Today
24/08/2017

How to convert date to AU format

- Show staff names and their date of birth in **ascending** order of their age
[From Topic 4.1]

```
SELECT StaffName, DateOfBirth
FROM Staff
Order by DateOfBirth;
```

StaffName	DateOfBirth ▲ 1
Fred Smith	1956-06-30
Jane Doe	1969-01-25
John Smith	1972-09-20
Mohammad Awrangjeb	1977-11-21
Rupam Deb	1980-10-21
Md Polash	1981-11-25
Teddy Bear	1983-12-03
Teddy Bear	1983-12-03
Jacek Jones	1984-10-19
Buffy Winters	1987-09-15

- Now for the above query, Show all staff and their date of birth in the format
'DD/MM/YYYY'

```
SELECT StaffName, DATE_FORMAT(DateOfBirth,'%d/%m/%Y') AS 'Date of birth'
FROM Staff
Order by DateOfBirth;
```

- Alternative, you can put hyphen or space

```
SELECT StaffName, DATE_FORMAT(DateOfBirth,'%d-%m-%Y') AS 'Date of birth'
FROM Staff
Order by DateOfBirth;
```

StaffName	Date of birth
Fred Smith	30/06/1956
Jane Doe	25/01/1969
John Smith	20/09/1972
Mohammad Awrangjeb	21/11/1977
Rupam Deb	21/10/1980
Md Polash	25/11/1981
Teddy Bear	03/12/1983
Teddy Bear	03/12/1983
Jacek Jones	19/10/1984
Buffy Winters	15/09/1987

Thank you