

-- 1st task: change column name

```
ALTER TABLE hr
```

```
CHANGE COLUMN id emp_id VARCHAR (20) NULL
```

-- I could have also run this query to change columnname in MYSQL

```
ALTER TABLE hr
```

```
RENAME COLUMN emp_id TO id
```

/* 2nd task: DESCRIBE tablename to see all the data types in our table. I start with using the DATE FORMAT function

to convert the birthdate and hire_date columns into the default MYSQL date format which is YYYY-MM-DD, and then I change the data type of the

birthdate and hire_date columns from TEXT to DATE using ALTER TABLE hr MODIFY COLUMN columnname DATE*/

```
UPDATE hr
```

```
SET birthdate = CASE
```

```
WHEN birthdate LIKE '%/%' THEN date_format(birthdate, '%Y-%m-%d')
```

```
WHEN birthdate LIKE '%-%' THEN date_format(birthdate, '%Y-%m-%d')
```

```
ELSE NULL
```

```
END
```

```
ALTER TABLE hr
```

```
MODIFY COLUMN birthdate DATE
```

```
DESCRIBE hr
```

```
UPDATE hr
```

```
SET hire_date = CASE
```

```
WHEN hire_date LIKE '%/%' THEN date_format(birthdate, '%Y-%m-%d')
```

```
WHEN hire_date LIKE '%-%' THEN date_format(birthdate, '%Y-%m-%d')
```

```
ELSE NULL
```

```
END
```

```
ALTER TABLE hr
```

```
MODIFY COLUMN hire_date DATE
```

```
DESCRIBE hr
```

```
select termdate from hr
```

/* below, I am going to convert the termination date (termdate) column into the default date format. I do not need the TIMESTAMP

or DATETIME, so I will run the following query:*/

```
UPDATE hr
```

```
SET termdate = IF(termdate IS NOT NULL AND termdate != ' ', date(date_format(termdate, '%Y-%m-%d %H:%i:%s UTC')),
```

```
'0000-00-00') WHERE true;
```

```
SELECT termdate FROM hr
```

```
ALTER TABLE hr
```

```
MODIFY COLUMN termdate DATE
```

```
DESCRIBE hr
```

-- add another column named AGE

```
ALTER TABLE hr
```

```
ADD COLUMN age INTEGER
```

-- the column age has no values, so I am going to CALCULATE the AGE

```
UPDATE hr
```

```
SET age = timestampdiff(YEAR, birthdate, CURDATE())
```

```
select birthdate, age from hr
```