### 2.3 Mô tả thay đổi về CSDL

Thêm bảng Regulations

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| STT | Tên trường | Kiểu dữ liệu | Nullable | Ghi chú | DEFAULT | P/F |
| 1 | ID | NUMBER(19,0) | No |  |  | P |
| 2 | Title | VARCHAR(2000) | No |  |  |  |
| 3 | Content | VARCHAR(20000) | No |  |  |  |

Bảng Employees: bổ sung thêm thông tin như dưới

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| STT | Tên trường | Kiểu dữ liệu | Nullable | Ghi chú | DEFAULT | P/F |
|  |  |  |  |  |  |  |
| 1 | Employee\_Status | VARCHAR2(30 BYTE) | Yes |  |  |  |

Thêm bảng Onboard\_Processing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| STT | Tên trường | Kiểu dữ liệu | Nullable | Ghi chú | DEFAULT | P/F |
| 1 | ID | NUMBER(19,0) | No |  |  | P |
| 2 | Processing\_Percent | FLOAT | Yes |  |  |  |
| 3 | PROCESSING\_NAME | VARCHAR2(50 BYTE) | No |  |  |  |
| 4 | Employee\_ID | NUMBER(19,0) | No |  |  | F |

Thêm bảng Onboard\_Detail

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| STT | Tên trường | Kiểu dữ liệu | Nullable | Ghi chú | DEFAULT | P/F |
| 1 | ID | NUMBER(19,0) | No |  |  | P |
| 2 | Title | VARCHAR2(500 BYTE) | No |  |  |  |
| 3 | Content | VARCHAR2(2000char) | No |  |  |  |
| 4 | Report\_Date | DATE | Yes |  |  |  |
| 5 | Is\_Done | VARCHAR2(50 BYTE) | Yes |  |  |  |
| 6 | Document\_Link | VARCHAR2(500 BYTE) | Yes |  |  |  |
| 7 | Download\_Link | VARCHAR2(500 BYTE) | Yes |  |  |  |
| 8 | Is\_Report | VARCHAR2(500 BYTE) | Yes |  |  |  |
| 9 | Report\_Status | VARCHAR2(50 BYTE) | Yes |  |  |  |
| 10 | Report\_Comment | VARCHAR2(500 BYTE) | Yes |  |  |  |
| 11 | ONBOARD\_PROCESSING\_ID | NUMBER(19,0) | No |  |  | F |

-function

create or replace FUNCTION fn\_getProcessPercent (processing\_id IN NUMBER) RETURN FLOAT

AS

number\_percent NUMBER;

total NUMBER;

countisdone NUMBER;

BEGIN

select count (\*) into total from onboard\_detail where onboard\_processing\_id=processing\_id;

select count (\*) into countisdone from onboard\_detail where onboard\_processing\_id=processing\_id and is\_done='1';

if(total >0) then

number\_percent := round(countisdone / total, 4) \* 100;

end if;

RETURN number\_percent;

END;

-stored procedure

create or replace procedure sp\_countProcessPercent(

processing\_id IN NUMBER)

as

number\_percent NUMBER;

begin

number\_percent:=fn\_getProcessPercent(processing\_id);

dbms\_output.put\_line('percent is: ' || number\_percent);

update onboard\_processing set processing\_percent=number\_percent where id =processing\_id;

end;