

**DATABASE MANAGEMENT SYSTEMS AND CLOUD  
INTEGRATION SERVICES - 18CSC109J**

**B.Tech CSE (Cloud Computing)**

**Student Portfolio**



Name : Papai mondal

Reg No : RA2111028010116

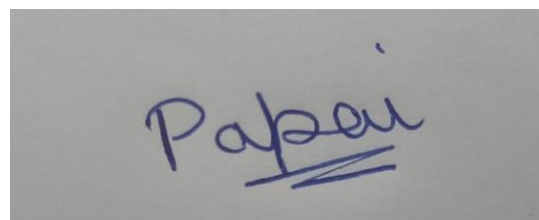
Year : 2<sup>nd</sup> Year

Section : P1

Course Teacher : Dr. B. Balakiruthiga

**List of Assignments:**

- SQL Query formulation
- ER Diagram
- Normalization of Database
- PLSQL Programs

A handwritten signature in blue ink on a grey background. The signature is written in a cursive style and appears to read 'Papai' with a double underline.

Signature of the student

Q.1 CREATE OR REPLACE PROCEDURE

get\_hiredate (

p\_job IN employees.job%TYPE,

p\_department IN

employees.department\_id%TYPE,

p\_hiredate OUT

employees.hiredate - date%TYPE.

) AS

BEGIN

SELECT hire\_date INTO p\_hiredate

FROM employees

WHERE job = p\_job

AND department\_id = p\_department;

END;

/

Q.2 CREATE OR REPLACE PROCEDURE

count\_employees\_by\_dept (dept\_id NUMBER)

IS

emp\_count NUMBER;

BEGIN

SELECT COUNT(\*) INTO emp\_count

FROM employees

WHERE department\_id = dept\_id;

DBMS\_OUTPUT.PUT\_LINE ('The total number of  
employees in department ' || dept\_id || ' is: ' || emp\_count

END;

Q.3 DECLARE

```
cursor emp-cur is SELECT  
employee-id, employee-location  
FROM employees;
```

```
emp-rec emp-cur% ROWTYPE;
```

```
BEGIN
```

```
OPEN emp-cur
```

```
LOOP
```

```
FETCH emp-cur INTO emp-rec;
```

```
EXIT WHEN
```

```
emp-cur%. NOTFOUND;
```

```
-- update employee location based on  
some condition
```

```
IF emp-rec.employee-id = 100
```

```
THEN
```

```
UPDATE employees SET
```

```
employee-location = 'New York'
```

```
WHERE CURRENT OF emp-cur;
```

```
END IF;
```

```
END LOOP;
```

```
CLOSE emp-cur;
```

```
END;
```

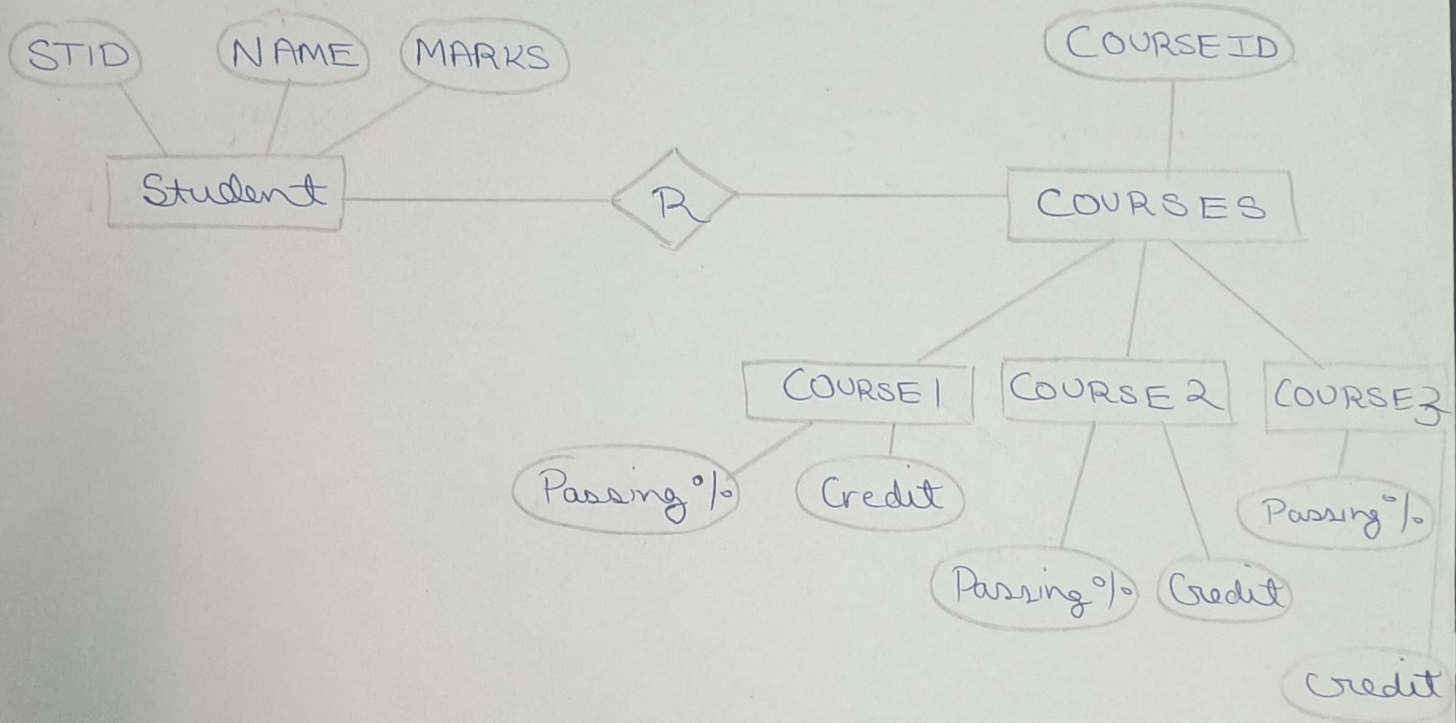


Name- PAPA1 MONDAL

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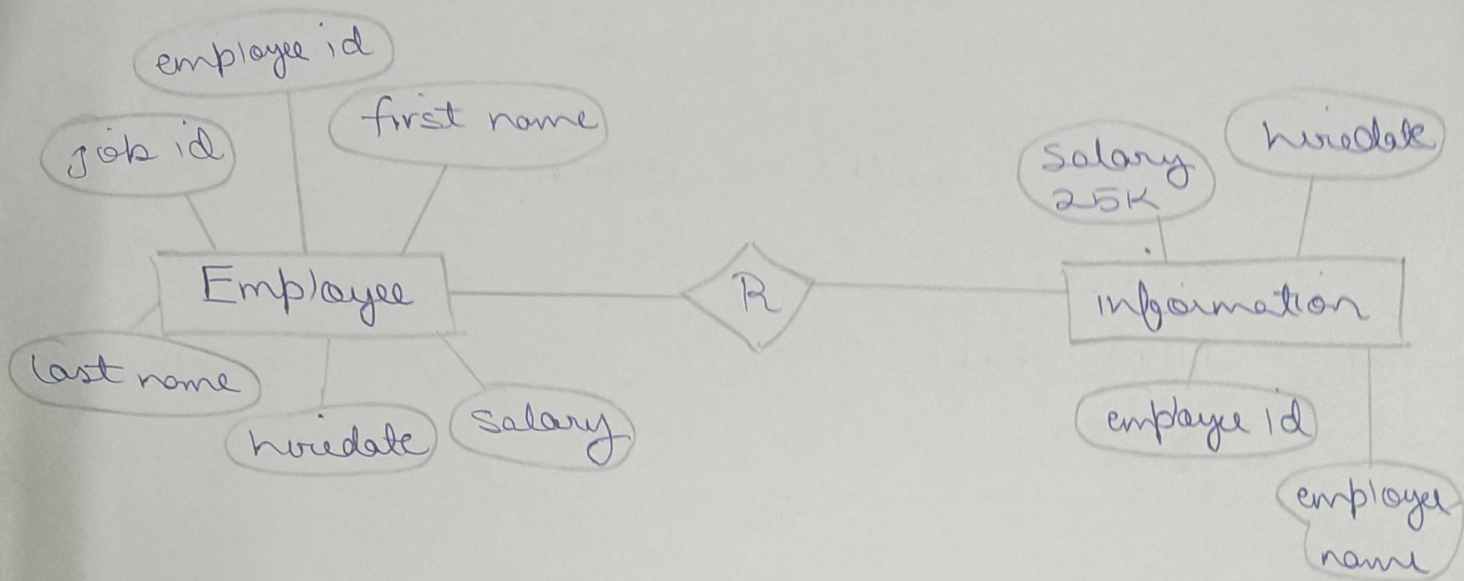
Roll no- RA2111028010116

### Student Marks



27. Construct an employee database table with attributes employee ID, First name, Last name, Job ID and hiredate.

• Construct a relationship between employees with similar hiredate and salary above 25K.



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# DBMS - Pharmacy Management

## Tables

Paper Model

RA211023010

(116)

PL

## Categories

Categories-id	name	active	status

## Order\_item

id	product Name	quantity	rate	total	added-date

$[Customer\_id]^+ \rightarrow (customer\_name, active, status, p\_number\ set)$

$[Order\_id]^+ \rightarrow (order\_id, order\_name, quantity, order\_total)$

$[prdet\_id]^+ \rightarrow (prdet\_image, brand\_id, Categories\_id, mwp, active, status)$

## Orders

$[order\_id]^+ \rightarrow (Order\_date, Client\_name, address, discount, paid, active, status)$

Primary keys  $\rightarrow$

order_id	}	user_civil
product_name		
customer_id		
order_date		

Primary key  $\leftarrow$  med

medicine_name	}	mid
stock		
exp_date		

NAME: PAPAI MONDAL

REG NO.: RA2111028010116

COURSE: Database Management Systems and Cloud Integration Services (18CSC209J)

### ASSIGNMENT 3- PART 1

**Q.1** Create a Movie table with MID, MNAME, Director, Producer, Movie-category, Actor, Year.

Note:

Insert the records with Actors as Karan,Thilak, producers as Arunachalam, Siva .

**ANS.**

```
CREATE TABLE Movie (  
  MID varchar(30),  
  Mname varchar(30),  
  Director varchar(30),  
  Producer varchar(30),  
  Movie_category varchar(30),  
  Actor varchar(30),  
  Year_release YEAR  
);
```

```
INSERT INTO Movie VALUES('John', 'Doe', 'Anurag', 'Arunachalam', 'Horror', 'Karan', 2021);
```

```
INSERT INTO Movie VALUES('Robert', 'Luna', 'Rajamouli', 'Siva', 'Action', 'Thilak', 2019);
```

```
INSERT INTO Movie VALUES('David', 'Robinson', 'Yash', 'Dhruv', 'Sci_Fi', 'Thilak', 2011);
```

```
INSERT INTO Movie VALUES('Betty', 'Reinhart', 'Siva', 'Siva', 'Action', 'Karan', 2022);
```

```
INSERT INTO Movie VALUES('Mary', 'Jane', 'Siva', 'Arunachalam', 'Romantic', 'Thilak', 2015);
```

```
INSERT INTO Movie VALUES('Johnathon', 'Silva', 'Shashi', 'Siva', 'Horror', 'Karan', 2023);
```

#### Movie

MID	Mname	Director	Producer	Movie_category	Actor	Year_release
Robert	AVATAR	Rajamouli	Siva	Action	Thilak	2019
David	SHERSHAAH	Yash	Dhruv	Sci_Fi	Thilak	2011
Betty	UNCHARTED	Siva	Siva	Action	Karan	2022
Mary	EXORCIST	Siva	Arunachalam	Romantic	Thilak	2015
Johnathon	WEDNESDAY	Shashi	Siva	Horror	Karan	2023
John	M3GAN	Anurag	Arunachalam	Horror	Karan	2021



**Q.2** Find the movies casted by Karan.

**ANS.**

SELECT Mname from Movie where Actor ="Karan";

```
SELECT Mname from Movie where Actor ="Karan";
```

#### Output

Mname
UNCHARTED
WEDNESDAY
M3GAN

**Q.3** Find the movies released by the producer Siva and Director Siva during the last 5 years

**ANS.**

SELECT Mname from Movie where Producer= 'Siva'AND Director='Siva'AND Year\_release> 2017;

```
SELECT Mname from Movie where Producer= 'Siva'AND Director='Siva'AND Year_release> 2017;
```

#### Output

Mname
UNCHARTED

**Q.4** List the movies according the year of release

**ANS.**

SELECT Mname, Year\_release from Movie ORDER BY Year\_release ASC;

```
SELECT Mname, Year_release from Movie ORDER BY Year_release ASC;
|
```

**Output**

Mname	Year_release
SHERSHAAH	2011
EXORCIST	2015
AVATAR	2019
M3GAN	2021
UNCHARTED	2022
WEDNESDAY	2023

**Q.5** Find the movies and movie categories ordered by year casted by the actor Thilak.

**ANS.**

SELECT Mname, Movie\_Category from Movie where Actor ="Thilak" ORDER BY Year\_release ASC;

```
SELECT Mname, Movie_Category from Movie where Actor ="Thilak" ORDER BY Year_release ASC;
|
```

**Output**

Mname	Movie_category
SHERSHAAH	Sci-Fi
EXORCIST	Romantic
AVATAR	Action



**Q.6** Find movies produced by Arunachalam after 2019.

**ANS.**

SELECT Mname from Movie where Producer="Arunachalam" AND Year\_release >2019;

```
SELECT Mname from Movie where Producer="Arunachalam" AND Year_release >2019;
```

Output

Mname
M3GAN

## **PART 2**

### **2) COMPANY TABLE**

CREATE TABLE EMPLOYEE(

EMPID int,

NAME varchar(30)

);

CREATE TABLE DEPARTMENT(

EMPID int ,

DEPTID int

);

```
CREATE TABLE PROJECT(  
EMPID int,  
PROJECT varchar(30)  
);
```

```
CREATE TABLE WORKSON(  
EMPID int ,  
SUPERVISOR varchar(30),  
HOURS int  
);
```

```
CREATE TABLE DEPENDENT(  
EMPID int,  
NAME varchar(30)  
);
```

```
INSERT INTO EMPLOYEE VALUES(116,'JOSEPH');  
INSERT INTO DEPARTMENT VALUES(116 , 5);  
INSERT INTO PROJECT VALUES(116, 'PROJECTX');  
INSERT INTO WORKSON VALUES(116, 'FRANKLIN WORDS' ,13);  
INSERT INTO DEPENDENT VALUES(116,'JOSEPH' );
```

**i)**

```
SELECT DISTINCT * FROM EMPLOYEE WHERE EID IN (SELECT EID FROM DEPARTMENT WHERE  
DEPTID=5) AND EID IN (SELECT EID FROM WORKSON WHERE HOURS>=10) AND EID IN (SELECT  
EID FROM PROJECT WHERE PROJECT='PROJECTX');
```

**ii)**

```
SELECT EMPLOYEE.ENAME FROM EMPLOYEE, DEPENDENT WHERE  
EMPLOYEE.ENAME=DEPENDENT;
```

**iii)**

```
SELECT ENAME FROM EMPLOYEE WHERE EID IN (SELECT EID FROM WORKSON WHERE  
SUPERVISOR='FRANKLIN WORDS');
```