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SECTION / SCHEDULE CEIT-37-302A/11:30-1:30 PM		DATE December 4 2023

PART VI. COMPANY DATABASE

Write the SQL statements that will generate the succeeding requirements.

1. Retrieve the names of all female dependents.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1     SELECT Dependent_name, Sex
2     FROM Dependent
3     WHERE Sex = 'F';
```

Dependent_name	Sex
Lea Oreon	F
Noldelyn	F
Purog	F
Heddie Galvez	F

2. Display all information of dependents who were born before 2015.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1  ●   SELECT *
2      FROM Dependent
3      WHERE Bdate < '2015-01-01';
```

Essn	Dependent_name	Sex	Bdate	Relationship
202222797	Noldelyn	F	1986-04-14	Mother
202378999	Jordan	M	2004-07-04	Brother
202410279	George	M	1985-07-12	Grandfather
202511728	Purog	F	2010-12-10	Sister
202601235	Adrian	M	1877-02-01	Father
202727712	John	M	2003-07-03	Niece
44443333	Max Leison	M	2007-08-01	Child
45633987	Heddie Galvez	F	2014-12-25	Child

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3. Make a list of employees who are working on a project for more than 500 hours.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1       SELECT e.*
2       FROM Employee e
3       JOIN Works_on w ON e.Ssn = w.Essn
4       WHERE w.Hours > 500;
```

	Fname	Minitial	Lname	Ssn	Bdate	Address	Sex	Salary	Superssn	Dno
▶	Irish	M	Oreon	11211211	1995-04-07	98 Dasmariñas, Cavite	F	30000.00	44443333	9
	Hannah	A	Isaac	22212345	1993-12-05	5 Evangelista, Makati City	F	35000.00	33322444	8
	Joseph	C	Ramos	33322444	1977-03-17	47 Sta. Mesa, Manila	M	70000.00	NULL	8

4. In the DEPENDENT relation, add Elisse Isaac, the daughter of Hannah Isaac who was born on November 14, 2022.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1  •    INSERT INTO DEPENDENT (Dependent_name, Sex, Bdate, Relationship, Essn)
2       VALUES ('Elisse Isaac', 'F', '2022-11-14', 'Daughter', '22212345');
```

	Essn	Dependent_name	Sex	Bdate	Relationship
▶	11211211	Lea Oreon	F	2017-07-04	Child
	202222797	Noldelyn	F	1986-04-14	Mother
	203378999	Jordan	M	2004-07-04	Brother
	202410279	George	M	1985-07-12	Grandfather
	202511728	Purog	F	2010-12-10	Sister
	202601235	Adrian	M	1877-02-01	Father
	202727712	John	M	2003-07-03	Niece
	202812345	Allen	M	2017-02-02	Niece
	22212345	Eli Isaac	M	2019-10-10	Child
	22212345	Elisse Isaac	F	2022-11-14	Daughter
	33322444	Brix Ramos	M	2015-09-19	Child
	44443333	Max Leison	M	2007-08-01	Child
	45633987	Heddie Galvez	F	2014-12-25	Child

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5. Compute and display the gross annual salary of all employees.
    Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT Ssn,Fname, Minitial,Lname, salary * 12 AS Gross_Annual_Salary
2    FROM Employee;
```

Ssn	Fname	Minitial	Lname	Gross_Annual_Salary
11211211	Irish	M	Oreon	360000.00
202222797	John	P	Bondad	1800000.00
202378999	Jeany	D	Pasamba	3000000.00
202410279	Dewell	A	Depra	1200000.00
202511728	Shyreen	P	Preclaro	6000000.00
202601235	Diana	P	Diasanta	5400000.00
202727712	Jestoni	A	Abelgas	1200000.00
202812345	Mayleen	P	Abelgas	1800000.00
22212345	Hannah	A	Isaac	420000.00
33322444	Joseph	C	Ramos	840000.00
44443333	Matt	F	Leison	1176000.00
45633987	Michael	K	Galvez	360000.00
55511115	Aizel	C	Orejola	540000.00
64659000	Gelo	B	Rillorta	6600000.00
77448855	Haji	M	Capobres	1320000.00

6. Compute and display the total monthly salary of employees in each department.
    Paste a screenshot of your SQL statements and the corresponding output below.

```
1  ●  SELECT Department.Dname, SUM(Employee.Salary) AS Total_Monthly_Salary
2     FROM employee
3     JOIN Department ON Employee.Dno = Department.Dnumber
4     group by Department.Dname;
```

Dname	Total_Monthly_Salary
Human Resources	150000.00
Information Technology	250000.00
Finance	100000.00
Production	500000.00
Accounting	450000.00
Warehouse	100000.00
Sales	150000.00
Creative Services	105000.00
Strategic Initiatives	2608000.00
Risk Management	45000.00
Asset Management	110000.00
Legal	550000.00

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7. Display the total number of employees in each department along with the department name.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT Department.Dname, COUNT(Employee.Dno) AS Total_Employees
2    FROM Department
3    LEFT JOIN Employee ON Department.Dnumber = Employee.Dno
4    GROUP BY Department.Dname;
```

Dname	Total_Employees
Human Resources	1
Information Technology	1
Finance	1
Production	1
Accounting	1
Warehouse	1
Sales	1
Creative Services	2
Strategic Initiatives	3
Risk Management	1
Asset Management	1
Legal	1

8. Display the names of employees with more than one dependent.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT e.Fname, e.Minitial,e.Lname
2    FROM Employee e
3    JOIN DEPENDENT d ON e.Ssn = d.Essn
4    GROUP BY e.Ssn
5    HAVING COUNT(d.Essn) > 1;
```

Fname	Minitial	Lname
Hannah	A	Isaac

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9. Display all information of employees assigned to projects outside Manila.
   Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT * FROM employee e
2    JOIN project p ON p.Dnum = e.Dno
3    WHERE p.Plocation != 'Manila';
```

Fname	Minitial	Lname	Ssn	Bdate	Address	Sex	Salary	Superssn	Dno	Pname	Pnumber	Plocation	Dnum
John	P	Bondad	202222797	2003-07-05	P. Rosales St.	M	150000.00	202222797	1	Hiring	123	City Convention	1
Jeany	D	Pasamba	202378999	2000-01-05	Pasig City	F	250000.00	202378999	2	Public Wifi	234	MOA	2
Dewell	A	Depra	202410279	2004-04-25	Pasig City	M	100000.00	202410279	3	Finace Track System	345	Dimsum City	3
Shyreen	P	Preclaro	202511728	2000-09-02	San Francisco St.	F	500000.00	202511728	4	Machinery Maintenance	456	Mandaluyong City	4
Diana	P	Diasanta	202601235	2002-07-18	123 Rizaliana St.	F	450000.00	202601235	5	Payroll System	567	Company Site	5
Jestoni	A	Abelgas	202727712	1996-05-14	11 Lagpan St.	M	100000.00	202727712	6	Build new Warehouse	678	Palawan Province	6
Mayleen	P	Abelgas	202812345	1999-06-25	15 Lagpan St.	F	150000.00	202812345	7	Sales Report System	789	Branch Site	7
Irish	M	Oreon	11211211	1995-04-07	98 Dasmariñas, Cavite	F	30000.00	44443333	9	BY	2345	Cebu	9
Matt	F	Leison	44443333	1975-02-22	14 San Roque, Pasig City	M	98000.00	NULL	9	BY	2345	Cebu	9
Michael	K	Galvez	45633987	1989-11-14	143 Muñoz, Quezon City	M	30000.00	44443333	9	BY	2345	Cebu	9
Nena	D	Sardines	45778888	2023-12-03	Acasia St Pasay City	F	2000000.00	NULL	9	BY	2345	Cebu	9
Kathryn	B	Padilla	46778281	2003-06-09	Masagana St Mandaluyong	F	150000.00	46778281	9	BY	2345	Cebu	9
Danniel	A	Padilla	47779999	1990-01-10	Boni Avenue Pasig	M	300000.00	47779999	9	BY	2345	Cebu	9
Haji	M	Capobres	77448855	1998-06-24	987 Daungan St.	M	110000.00	NULL	11	CX	3456	Davao	11
Irish	M	Oreon	11211211	1995-04-07	98 Dasmariñas, Cavite	F	30000.00	44443333	9	CZ	5678	Cebu	9
Matt	F	Leison	44443333	1975-02-22	14 San Roque, Pasig City	M	98000.00	NULL	9	CZ	5678	Cebu	9
Michael	K	Galvez	45633987	1989-11-14	143 Muñoz, Quezon City	M	30000.00	44443333	9	CZ	5678	Cebu	9
Nena	D	Sardines	45778888	2023-12-03	Acasia St Pasay City	F	2000000.00	NULL	9	CZ	5678	Cebu	9
Kathryn	B	Padilla	46778281	2003-06-09	Masagana St Mandaluyong	F	150000.00	46778281	9	CZ	5678	Cebu	9
Danniel	A	Padilla	47779999	1990-01-10	Boni Avenue Pasig	M	300000.00	47779999	9	CZ	5678	Cebu	9
Haji	M	Capobres	77448855	1998-06-24	987 Daungan St.	M	110000.00	NULL	11	JX	8877	Davao	11

10. Compute the average salary for every department.
    Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT Department.Dname, AVG(Salary) AS Average_Salary
2    FROM Department
3    LEFT JOIN Employee ON Department.Dnumber = Employee.Dno
4    GROUP BY Department.Dname;
```

Dname	Average_Salary
Human Resources	150000.000000
Information Technology	250000.000000
Finance	100000.000000
Production	500000.000000
Accounting	450000.000000
Warehouse	100000.000000
Sales	150000.000000
Creative Services	52500.000000
Strategic Initiatives	52666.666667
Risk Management	45000.000000
Asset Management	110000.000000
Legal	550000.000000

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11. Make a list of all managers who were already working with the company before the year 2000.
Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT e.Fname,e.Minitial, e.Lname
2    FROM Employee e
3    JOIN Department d ON e.Ssn = d.Mgr_ssn
4    WHERE D.Mgr_Start_Date < '2000-01-01';
```

Fname	Minitial	Lname
Joseph	C	Ramos
Matt	F	Leison
Aizel	C	Orejola
Haji	M	Capobres

12. Add the information of three employees without any dependents who will be working under the Strategic Initiatives Department.
Paste a screenshot of your SQL statements and the corresponding output below.

```
1    INSERT INTO Employee (Fname,Minitial,Lname,Ssn,Bdate,Address,Sex, Salary,Superssn,Dno)
2    VALUES ('Nena', 'D','Sardines','45778888','2023-12-03', 'Acasia St Pasay City','F','2000000.00',NULL,'9'),
3           ('Kathryn','B','Padilla','46778281','2003-06-09','Masagana St Mandaluyong','F','150000.00','46778281','9'),
4           ('Danniel','A','Padilla','47779999','1990-01-10','Boni Avenue Pasig','M','300000.00','47779999','9');
```

Fname	Minitial	Lname	Ssn	Bdate	Address	Sex	Salary	Superssn	Dno
Irish	M	Oreon	11211211	1995-04-07	98 Dasmariñas, Cavite	F	30000.00	44443333	9
John	P	Bondad	202222797	2003-07-05	P. Rosales St.	M	150000.00	202222797	1
Jeany	D	Pasamba	202378999	2000-01-05	Pasig City	F	250000.00	202378999	2
Dewell	A	Depra	202410279	2004-04-25	Pasig City	M	100000.00	202410279	3
Shyreen	P	Preclaro	202511728	2000-09-02	San Francisco St.	F	500000.00	202511728	4
Diana	P	Diasanta	202601235	2002-07-18	123 Rizaliana St.	F	450000.00	202601235	5
Jestoni	A	Abelgas	202727712	1996-05-14	11 Lagpan St.	M	100000.00	202727712	6
Mayleen	P	Abelgas	202812345	1999-06-25	15 Lagpan St.	F	150000.00	202812345	7
Hannah	A	Isaac	22212345	1993-12-05	5 Evangelista, Makati City	F	35000.00	33322444	8
Joseph	C	Ramos	33322444	1977-03-17	47 Sta. Mesa, Manila	M	70000.00	NULL	8
Matt	F	Leison	44443333	1975-02-22	14 San Roque, Pasig City	M	98000.00	NULL	9
Michael	K	Galvez	45633987	1989-11-14	143 Muñoz, Quezon City	M	30000.00	44443333	9
Nena	D	Sardines	45778888	2023-12-03	Acasia St Pasay City	F	2000000.00	NULL	9
Kathryn	B	Padilla	46778281	2003-06-09	Masagana St Mandaluyong	F	150000.00	46778281	9
Danniel	A	Padilla	47779999	1990-01-10	Boni Avenue Pasig	M	300000.00	47779999	9
Aizel	C	Orejola	55511115	1990-07-20	MalagpayaSt.	F	45000.00	NULL	10
Gelo	B	Rillorta	64659000	2003-02-23	65A Pinagbenga St.	M	550000.00	NULL	12
Haji	M	Capobres	77448855	1998-06-24	987 Daungan St.	M	110000.00	NULL	11

13. Add project JX with project number 8877 located in Davao to be managed by Asset Management.
Paste a screenshot of your SQL statements and the corresponding output below.

```
1    INSERT INTO Project (Pname,Pnumber,Plocation,Dnum)
2    VALUES ('JX', '8877', 'Davao','11' );
```

	Pname	Pnumber	Plocation	Dnum
▶	Hiring	123	City Convention	1
	Public Wifi	234	MOA	2
	Finace Track System	345	Dimsum City	3
	Machinery Maintenance	456	Mandaluyong City	4
	Payroll System	567	Company Site	5
	Build new Warehouse	678	Palawan Province	6
	Sales Report System	789	Branch Site	7
	BY	2345	Cebu	9
	CX	3456	Davao	11
	AX	4567	Manila	8
	CZ	5678	Cebu	9
	BX	7890	Manila	8
	JX	8877	Davao	11

14. Display the names of employees who are 55 years old and above.
Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT Fname, Minitial, Lname
2    FROM employee
3    WHERE YEAR(CURDATE()) - YEAR(bdate) >= 55;
```

	Fname	Minitial	Lname

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15. Make a list of employees who are not assigned to any project.
    Paste a screenshot of your SQL statements and the corresponding output below.

```
1    SELECT e.*
2    FROM employee e
3    LEFT JOIN project p ON e.dno = p.dnum
4    WHERE p.dnum IS NULL;
```

	Fname	Minitial	Lname	Ssn	Bdate	Address	Sex	Salary	Superssn	Dno
▶	Aizel	C	Orejola	55511115	1990-07-20	MalagpayaSt.	F	45000.00	NULL	10
	Gelo	B	Rillorta	64659000	2003-02-23	65A Pinagbenga...	M	550000.00	NULL	12