**Create 2 tables based on the ER model shown below. Include necessary constraints in the CREATE TABLE statements. Insert 5 records in each table.**

CREATE TABLE JOB

(

JOB\_CODE CHAR(3) CONSTRAINT JOB\_PK PRIMARY KEY,

JOB\_CLASS CHAR(30),

CHG\_HOUR NUMBER(5, 2)

);

CREATE TABLE EMP11

(

EMP\_NUM NUMBER(\*,0) CONSTRAINT EMP\_NUM\_PK PRIMARY KEY,

EMP\_FNAME CHAR(20),

EMP\_LNAME CHAR(20) CONSTRAINT EMP\_LNAME\_UK UNIQUE,

JOB\_CLASS CHAR(3),

HIRE\_DATE DATE,

CONSTRAINT JOB\_FK FOREIGN KEY (JOB\_CLASS)

REFERENCES JOB (JOB\_CODE)

);

--Inserting in JOB Table

INSERT INTO JOB (JOB\_CODE, JOB\_CLASS, CHG\_HOUR)

VALUES ('001', 'Manager', 35.75);

INSERT INTO JOB (JOB\_CODE, JOB\_CLASS, CHG\_HOUR)

VALUES ('002', 'Technician', 25.50);

INSERT INTO JOB (JOB\_CODE, JOB\_CLASS, CHG\_HOUR)

VALUES ('003', 'Analyst', 28.90);

INSERT INTO JOB (JOB\_CODE, JOB\_CLASS, CHG\_HOUR)

VALUES ('004', 'Developer', 32.25);

INSERT INTO JOB (JOB\_CODE, JOB\_CLASS, CHG\_HOUR)

VALUES ('005', 'Accountant', 30.00);

--Inserting into EMP11 Table

INSERT INTO EMP11 (EMP\_NUM, EMP\_FNAME, EMP\_LNAME, JOB\_CLASS, HIRE\_DATE)

VALUES (1001, 'John', 'Smith', '001', DATE '2022-03-15');

INSERT INTO EMP11 (EMP\_NUM, EMP\_FNAME, EMP\_LNAME, JOB\_CLASS, HIRE\_DATE)

VALUES (1002, 'Sarah', 'Johnson', '003', DATE '2021-07-21');

INSERT INTO EMP11 (EMP\_NUM, EMP\_FNAME, EMP\_LNAME, JOB\_CLASS, HIRE\_DATE)

VALUES (1003, 'Michael', 'Davis', '002', DATE '2023-01-10');

INSERT INTO EMP11 (EMP\_NUM, EMP\_FNAME, EMP\_LNAME, JOB\_CLASS, HIRE\_DATE)

VALUES (1004, 'Jennifer', 'Brown', '005', DATE '2022-11-05');

INSERT INTO EMP11 (EMP\_NUM, EMP\_FNAME, EMP\_LNAME, JOB\_CLASS, HIRE\_DATE)

VALUES (1005, 'David', 'Miller', '004', DATE '2023-04-02');

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**Question\_1. Modify the table Job:**

1. **Add a column named overtimeCharge (NOT NULL)**

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1. **Add constraint named charge\_ck (CHG\_HOUR >=25)**

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**Question\_2. Delete constraint name charge\_ck.**

ALTER TABLE JOB

DROP CONSTRAINT charge\_ck;

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**Question\_3. Delete overtimeCharge column.**

ALTER TABLE JOB

DROP COLUMN overtimeCharge; A screenshot of a computer

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**Question\_4. Create a new table containing two columns from the existing EMP11 table:**

**EMP\_NUM, EMP\_FNAME, EMP\_LNAME. The name of the EMP\_NUM column should be EMP\_ID, and the other column should keep its original name. Name the new table EMP11\_master. After the table is created, add a new column EMP\_birthdate to the EMP11\_master table.**

CREATE TABLE EMP11\_master

(

EMP\_ID NUMBER(\*,0) PRIMARY KEY,

EMP\_FNAME CHAR(20),

EMP\_LNAME CHAR(20)

);

INSERT INTO EMP11\_master (EMP\_ID, EMP\_FNAME)

SELECT EMP\_NUM, EMP\_FNAME

FROM EMP11;

ALTER TABLE EMP11\_master

ADD COLUMN EMP\_birthdate DATE;

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**Question\_5. Delete the EMP11\_Master table permanently so that it isn’t moved to the recycle bin. Delete the EMP11 table so that it can be restored. Restore the EMP11 table and verify that it’s available again.**

--SETTING RECYCLEBIN TO ON

ALTER SESSION SET RECYCLEBIN = 'ON';

--Permanantly deleting table EMP11\_master

TRUNCATE TABLE EMP11\_MASTER;

--Deleting the table EMP11

DROP TABLE EMP11;

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--Using flashback command to recover the table

FLASHBACK TABLE EMP11 TO BEFORE DROP;

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