```
READ
 SELECT customernumber, customername,
                                                            SELECT DISTINCT customernumber
 contactlastname || ',' || contactfirstname AS "Fullname" | FROM payments
                                                            WHERE amount IS NOT NULL; /* amount > 0 */
 FROM customers
 WHERE LOWER(city) = 'paris';
                                                            WHERE amount < 30000 OR amount > 65000 /* using NOT BETWEEN 30000 AND 65000 */
                                                          CREATE
                      INSERT INTO employees
                      (employeenumber, lastname, firstname, extension, email, officecode, reportsto, jobtitle)
                      (1704, 'Dugar', 'Divyanshu', 'x905', 'ddugar@myseneca.ca', '4', 1088, 'Cashier');
      INSERT ALL
      INTO employees VALUES (1704, 'Dugar', 'Divyanshu', 'x905', 'ddugar@myseneca.ca', '4', 1088, 'Head Cashier')
      INTO employees VALUES(1706, 'Kaur', 'Rehatpreet', 'x647', 'rpkaur4@myseneca.ca', '5', 1088, 'Cashier')
      SELECT * FROM dual;
                                                         UPDATE
UPDATE employee2 SET
                              UPDATE employees SET
firstname = 'Divyanshu',
                              jobtitle = 'Head Cashier'
lastname = 'Dugar'
                               WHERE
                                                         UPDATE employee2 SET
WHERE employeenumber = 1002; employeenumber = 1704; username = LOWER(CONCAT(SUBSTR(firstname,1,1),lastname));
                                                          DELETE
               DELETE FROM employees DELETE FROM employees
                                                                                   DELETE FROM employee2
                WHERE employeenumber = 1704; WHERE employeenumber IN(1704,1706); WHERE officecode = 4;
                                                     CREATING TABLES
CREATE TABLE movies (
                                                      CREATE TABLE castings (
   mid INT PRIMARY KEY,
                                                      movieid INT,
   title VARCHAR(35) NOT NULL,
                                                      actorid INT,
   releaseYear INT NOT NULL,
                                                      PRIMARY KEY (movieid, actorid),
                                                      CONSTRAINT movie_id FOREIGN KEY (movieid) REFERENCES movies (mid),
   director INT NOT NULL,
   score DECIMAL(3,2) CHECK (score BETWEEN 0 AND 5) CONSTRAINT actor_id FOREIGN KEY (actorid) REFERENCES actors(aid)
                                                       );
CREATE TABLE pgm (
   pgm id VARCHAR(3) PRIMARY KEY,
   pgm_name VARCHAR(40) NOT NULL UNIQUE,
   no semesters NUMBER(1) DEFAULT 6 NOT NULL,
   CONSTRAINT chk pgmid CHECK (pgm_id IN ('CPA', 'CPD')),
                                                               CREATE TABLE employee2 AS
   CONSTRAINT chk numSem CHECK (no semesters >= 0)
                                                                (SELECT * FROM employees);
             ALTER TABLE table name
                                             ALTER TABLE table_name
                                                                                           ALTER TABLE
             MODIFY column_name type constraint; DROP COLUMN column name;
ALTER TABLE table_name ||ALTER TABLE movies
 DROP (
                                                            ALTER TABLE movies
                        ADD CONSTRAINT director fk
   column_name_1,
                                                            ADD CONSTRAINT title_unq ALTER TABLE employee2
                        FOREIGN KEY (director)
    column name 2
                        REFERENCES directors (directorid); UNIQUE (title);
                                                                                       ADD username VARCHAR(20);
  INNER JOIN - DISPLAYS ONLY THE COLUMNS WHO SATISFY THE ON CONDITION | LEFT JOIN - DISPLAYS ALL THE COLUMNS
                                                    INNER JOINS/JOINS
```

SELECT e.employeenumber, e.firstname, e.lastname, c.phone, c.postalcode FROM CUSTOMERS c

FROM EMPLOYEES e

INNER JOIN CUSTOMERS C

WHERE LOWER (country) = 'france';

ON c.salesrepemployeenumber = e.employeenumber

SELECT c.\*, p.\*

INNER JOIN PAYMENTS p

ON p.customernumber = c.customernumber

WHERE LOWER (country) = 'canada'

ORDER BY c.customernumber;

## CREATING/REPLACING VIEWS BY INNER JOINING MULTIPLE TABLES

```
CREATE VIEW vwCustomerOrder AS
SELECT c.customernumber, o.ordernumber, o.orderdate, p.productname, od.quantityordered, od.priceeach
FROM customers c
JOIN orders O ON o.customernumber = c.customernumber
JOIN orderdetails od ON od.ordernumber = o.ordernumber
JOIN products p ON p.productcode = od.productcode;
           CREATE OR REPLACE VIEW vwCustomerOrder AS
           SELECT c.customernumber, o.ordernumber, o.orderdate, p.productname,
           od.quantityordered, od.priceeach, od.orderlinenumber
           FROM customers c
           JOIN orders ON o.customernumber = c.customernumber
           JOIN orderdetails od ON od.ordernumber = o.ordernumber
           JOIN products p ON p.productcode = od.productcode;
                      VIEWING A VIEW -> | SELECT * FROM vwcustomerorder;
                      CREATING/REPLACING VIEWS BY LEFT JOINING 2 TABLES
         CREATE OR REPLACE VIEW vwEmployeeManager AS
         SELECT e.*, m.firstname AS ManagerFirstName, m.lastname AS ManagerLastName
         FROM employees e
         LEFT JOIN employees m
         ON e.reportsto = m.employeenumber ;
```

## **USING TO\_CHAR FUNCTION**

```
SELECT c.customernumber, c.customername, TO CHAR(p.paymentdate, 'MON DD, YYYY'), p.amount
FROM CUSTOMERS c
INNER JOIN PAYMENTS p
ON p.customernumber = c.customernumber
WHERE LOWER (country) = 'canada'
ORDER BY c.customernumber;
```

## **DROPPING TABLES AND VIEWS**

DROP VIEW vwcustomerorder; DROP TABLE employee2;

Create a query that lists the teams that SELECT teamID, teamName do not yet have any players linked to them:

FROM teams LEFT JOIN players ON TEAMS.TEAMID=players.teamid WHERE playerID IS NULL;

```
UPDATE staff SET
active = 0
WHERE empid = 1005;
-- FIRING --
UPDATE customer SET
empid = NULL
WHERE custid = 1050;
DELETE FROM staff
WHERE empid = 1005;
```