SQL Shell (psql)

```
altos=# \c altos
You are now connected to database "altos" as user "postgres".
altos=# CREATE TABLE worker (
altos(#     worker_id INT PRIMARY KEY,
altos(#     first_name VARCHAR(50),
altos(#     last_name VARCHAR(50),
altos(#     salary DECIMAL(10,2),
altos(#     joining_date DATE,
altos(#     department VARCHAR(50)
altos(# );
CREATE TABLE
altos=# INSERT INTO worker (worker_id, first_name, last_name, salary, joining_date, department) VALUES
altos-# (1, 'Vipul', 'Sharma', 70000.00, '2020-01-10', 'HR'),
altos-# (2, 'Amit', 'Verma', 55000.00, '2019-03-15', 'Finance'),
altos-# (3, 'Sneha', 'Rao', 62000.00, '2021-07-01', 'IT'),
altos-# (4, 'Priya', 'Mehta', 58000.00, '2022-02-20', 'Marketing'),
altos-# (5, 'Raj', 'Patel', 75000.00, '2018-11-05', 'IT');
INSERT 0 5
altos=# select * from worker;
 worker_id | first_name | last_name |  salary  | joining_date | department
-----------+------------+-----------+----------+--------------+------------
         1 | Vipul      | Sharma    | 70000.00 | 2020-01-10   | HR
         2 | Amit       | Verma     | 55000.00 | 2019-03-15   | Finance
         3 | Sneha      | Rao       | 62000.00 | 2021-07-01   | IT
         4 | Priya      | Mehta     | 58000.00 | 2022-02-20   | Marketing
         5 | Raj        | Patel     | 75000.00 | 2018-11-05   | IT
(5 rows)


altos=#
```

SQL Shell (psql)

```
(5 rows)


altos=# SELECT first_name FROM worker;
 first_name
------------
 Vipul
 Amit
 Sneha
 Priya
 Raj
(5 rows)


altos=# SELECT UPPER(first_name) AS upper_first_name FROM worker;
 upper_first_name
------------------
 VIPUL
 AMIT
 SNEHA
 PRIYA
 RAJ
(5 rows)


altos=# SELECT SUBSTRING(first_name, 1, 3) AS first_three_chars FROM worker;
 first_three_chars
-------------------
 Vip
 Ami
 Sne
 Pri
 Raj
(5 rows)


altos=#
```

SQL Shell (psql)

```
altos=# SELECT REPLACE(first_name, ' ', '') AS first_name_no_spaces FROM worker;
 first_name_no_spaces
----------------------
 Vipul
 Amit
 Sneha
 Priya
 Raj
(5 rows)


altos=# SELECT DISTINCT department FROM worker;
 department
------------
 Marketing
 Finance
 IT
 HR
(4 rows)


altos=# SELECT DISTINCT department, LENGTH(department) AS dept_length FROM worker;
 department | dept_length
------------+-------------
 HR         |           2
 Finance    |           7
 Marketing  |           9
 IT         |           2
(4 rows)


altos=#
```

SQL Shell (psql)

```
altos=# SELECT first_name FROM worker ORDER BY first_name ASC;
 first_name
------------
 Amit
 Priya
 Raj
 Sneha
 Vipul
(5 rows)


altos=# SELECT * FROM worker ORDER BY department DESC;
 worker_id | first_name | last_name |  salary  | joining_date | department
-----------+------------+-----------+----------+--------------+------------
         4 | Priya      | Mehta     | 58000.00 | 2022-02-20   | Marketing
         3 | Sneha      | Rao       | 62000.00 | 2021-07-01   | IT
         5 | Raj        | Patel     | 75000.00 | 2018-11-05   | IT
         1 | Vipul      | Sharma    | 70000.00 | 2020-01-10   | HR
         2 | Amit       | Verma     | 55000.00 | 2019-03-15   | Finance
(5 rows)


altos=# SELECT * FROM worker WHERE first_name = 'Vipul';
 worker_id | first_name | last_name |  salary  | joining_date | department
-----------+------------+-----------+----------+--------------+------------
         1 | Vipul      | Sharma    | 70000.00 | 2020-01-10   | HR
(1 row)


altos=#
```

SQL Shell (psql)

```
altos=# SELECT * FROM worker WHERE salary > 60000;
 worker_id | first_name | last_name |  salary   | joining_date | department
-----------+------------+-----------+-----------+--------------+------------
         1 | Vipul      | Sharma    | 70000.00 | 2020-01-10   | HR
         3 | Sneha      | Rao       | 62000.00 | 2021-07-01   | IT
         5 | Raj        | Patel     | 75000.00 | 2018-11-05   | IT
(3 rows)


altos=# SELECT * FROM worker WHERE salary BETWEEN 55000 AND 70000;
 worker_id | first_name | last_name |  salary   | joining_date | department
-----------+------------+-----------+-----------+--------------+------------
         1 | Vipul      | Sharma    | 70000.00 | 2020-01-10   | HR
         2 | Amit       | Verma     | 55000.00 | 2019-03-15   | Finance
         3 | Sneha      | Rao       | 62000.00 | 2021-07-01   | IT
         4 | Priya      | Mehta     | 58000.00 | 2022-02-20   | Marketing
(4 rows)


altos=#
```