

```
-- ACTIVATING THE DATABASE
```

```
USE AD_ASSIGNMENT;
```

```
-- CREATING A TABLE IN DATABASE
```

```
CREATE OR REPLACE TABLE AD_customers
```

```
(
```

```
customer_id INT PRIMARY KEY,
```

```
first_name VARCHAR(50),
```

```
last_name VARCHAR(50),
```

```
gender VARCHAR(10),
```

```
city VARCHAR(50),
```

```
age INT
```

```
);
```

```
-- INSERTING VALUES INTO THE TABLE
```

```
INSERT INTO AD_customers (customer_id, first_name, last_name, gender, city, age)
```

```
VALUES
```

```
(1, 'John', 'Doe', 'Male', 'New York', 35),
```

```
(2, 'Jane', 'Smith', 'Female', 'Los Angeles', 28),
```

```
(3, 'Michael', 'Johnson', 'Male', 'Chicago', 45),
```

```
(4, 'Emily', 'Davis', 'Female', 'Houston', 22),
```

```
(5, 'David', 'Wilson', 'Male', 'Miami', 40),
```

```
(6, 'Lisa', 'Brown', 'Female', 'New York', 32),
```

```
(7, 'William', 'Lee', 'Male', 'Los Angeles', 29),
```

```
(8, 'Sarah', 'White', 'Female', 'Chicago', 50),
```

```
(9, 'James', 'Harris', 'Male', 'Houston', 37),
```

```
(10, 'Maria', 'Martin', 'Female', 'Miami', 24);
```

```
-- CHECKING IF ROWS ARE INSERTED
```

```
SELECT * FROM AD_CUSTOMERS;
```

-- COUNTING THE NO OF ROWS

```
SELECT COUNT(*) FROM AD_CUSTOMERS;
```

-- QUESTION AND ANSWERS

-- 1. Retrieve the first and last names of all customers.

```
SELECT DISTINCT CUSTOMER_ID, FIRST_NAME, LAST_NAME
```

```
FROM AD_CUSTOMERS
```

```
ORDER BY CUSTOMER_ID;
```

```
209 | -- 1. Retrieve the first and last names of all customers.
210 |
211 | SELECT DISTINCT CUSTOMER_ID, FIRST_NAME, LAST_NAME
212 | FROM AD_CUSTOMERS
213 | ORDER BY CUSTOMER_ID;
214 |
```

The screenshot shows a database query results interface. The main area displays a table with 10 rows of customer data. The table has columns for CUSTOMER_ID, FIRST_NAME, and LAST_NAME. The sidebar on the right contains 'Query Details' (Query duration: 113ms, Rows: 10, Query ID: 01af43e6-3200-e77f-0...), a visualization for CUSTOMER_ID (a bar chart with 10 bars), and a visualization for FIRST_NAME (a bar chart labeled '100% filled').

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	...
1	1	John	Doe	
2	2	Jane	Smith	
3	3	Michael	Johnson	
4	4	Emily	Davis	
5	5	David	Wilson	
6	6	Lisa	Brown	
7	7	William	Lee	
8	8	Sarah	White	
9	9	James	Harris	
10	10	Maria	Martin	

-- 2. Find the total number of customers in the dataset.

```
SELECT COUNT(DISTINCT CUSTOMER_ID) AS TOT_CUSTOMERS
```

```
FROM AD_CUSTOMERS;
```

```
215 | -- 2. Find the total number of customers in the dataset.
216 |
217 | SELECT COUNT(DISTINCT CUSTOMER_ID) AS TOT_CUSTOMERS
218 | FROM AD_CUSTOMERS;
219 |
```

The screenshot shows a database query results interface. The main area displays a table with 1 row and 1 column, TOT_CUSTOMERS, with the value 10. The sidebar on the right contains 'Query Details' (Query duration, Rows).

	TOT_CUSTOMERS
1	10

-- 3. Get the names of male customers.

```
SELECT FIRST_NAME || ' ' || LAST_NAME AS MALE_CUSTOMER_NAME
FROM AD_CUSTOMERS
WHERE GENDER = 'Male';
```

```
220 -- 3. Get the names of male customers.
221
222 SELECT FIRST_NAME || ' ' || LAST_NAME AS MALE_CUSTOMER_NAME
223 FROM AD_CUSTOMERS
224 WHERE GENDER = 'Male';
225
```

	MALE_CUSTOMER_NAME
1	John Doe
2	Michael Johnson
3	David Wilson
4	William Lee
5	James Harris

Results

Chart

Query Details

...

Query duration

52ms

Rows

5

Query ID

01af43e7-3200-e77f-0...

MALE_CUSTOMER_NAME

A

-- 4. Find customers who are aged 30 or older.

```
SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME, AGE
FROM AD_CUSTOMERS
WHERE AGE >= 30;
```

```
226 -- 4. Find customers who are aged 30 or older.
227
228 SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME, AGE
229 FROM AD_CUSTOMERS
230 WHERE AGE >= 30;
231
```

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	...	AGE
1	1	John	Doe		35
2		Michael	Johnson		45
3	5	David	Wilson		40
4	6	Lisa	Brown		32
5	8	Sarah	White		50
6	9	James	Harris		37

Results

Chart

Query Details

...

Query duration

59ms

Rows

6

Query ID

01af43e8-3200-e740-0...

CUSTOMER_ID

#

-- 5. List customers from New York.

```
SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME, CITY
FROM AD_CUSTOMERS
WHERE UPPER(CITY) IN('NEW YORK');
```

```

232 -- 5. List customers from New York.
233
234 SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME, CITY
235 FROM AD_CUSTOMERS
236 WHERE UPPER(CITY) IN('NEW YORK');
237

```

Results

Chart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	CITY ...
1	1	John	Doe	New York
2	6	Lisa	Brown	New York

Query De

Query du

Rows

Query ID

-- 6. Retrieve customers whose first name starts with 'J'.

```

SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME
FROM AD_CUSTOMERS
WHERE UPPER(FIRST_NAME) LIKE 'J%'
;

```

```

238 -- 6. Retrieve customers whose first name starts with 'J'.
239
240 SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME
241 FROM AD_CUSTOMERS
242 WHERE UPPER(FIRST_NAME) LIKE 'J%'
243 ;
244

```

Results		Chart	
	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith
3	9	James	Harris

-- 7. Find customers aged between 25 and 35 (inclusive).

```

SELECT CUSTOMER_ID, FIRST_NAME, LAST_NAME, AGE
FROM AD_CUSTOMERS
WHERE AGE BETWEEN 25 AND 35;

```

```

246 -- 7. Find customers aged between 25 and 35 (inclusive).
247
248 SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,AGE
249 FROM AD_CUSTOMERS
250 WHERE AGE BETWEEN 25 AND 35;
251

```

Results		Chart	
	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith
3	9	James	Harris

Query Details
Query duration
Rows
Query ID 01af4
CUSTOMER_ID

-- 8. Get female customers from Los Angeles or male customers from Chicago.

```

SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,GENDER,CITY
FROM AD_CUSTOMERS
WHERE (GENDER = 'Female' AND CITY = 'Los Angeles')OR(GENDER = 'Male' AND CITY = 'Chicago');

```

```

253 -- 8. Get female customers from Los Angeles or male customers from Chicago.
254
255 SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,GENDER,CITY
256 FROM AD_CUSTOMERS
257 WHERE (GENDER = 'Female' AND CITY = 'Los Angeles')OR(GENDER = 'Male' AND CITY = 'Chicago');
258

```

Results		Chart	
	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith
3	9	James	Harris

Query Details
Query duration
Rows
Query ID 01a
CUSTOMER_ID

-- 9. List customers who are either from Miami or aged 50 or older.

```

SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,CITY,AGE
FROM AD_CUSTOMERS
WHERE CITY ='Miami' OR AGE >= 50;

```

```

259 -- 9. List customers who are either from Miami or aged 50 or older.
260
261 SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,CITY,AGE
262 FROM AD_CUSTOMERS
263 WHERE CITY ='Miami' OR AGE >= 50;

```

Results		Chart	
	CUSTOMER_ID	FIRST_NAME	LAST_NAME
1	1	John	Doe
2	2	Jane	Smith
3	9	James	Harris

Query Details
Query duration
Rows
Query ID 0
CUSTOMER_ID

-- 10. Find customers with names 'John' or 'Jane' and aged less than 30.

```
SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,AGE
FROM AD_CUSTOMERS
WHERE FIRST_NAME IN ('John','Jane') AND AGE <30;
```

265 -- 10. Find customers with names 'John' or 'Jane' and aged less than 30.
266 SELECT CUSTOMER_ID,FIRST_NAME,LAST_NAME,AGE
267 FROM AD_CUSTOMERS
268 WHERE FIRST_NAME IN ('John','Jane') AND AGE <30;

ResultsChart

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	...	AGE
1	2	Jane	Smith		28

Query Details

Query duration

Rnws