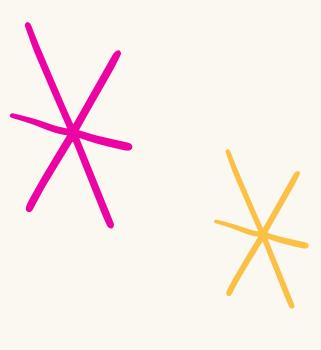
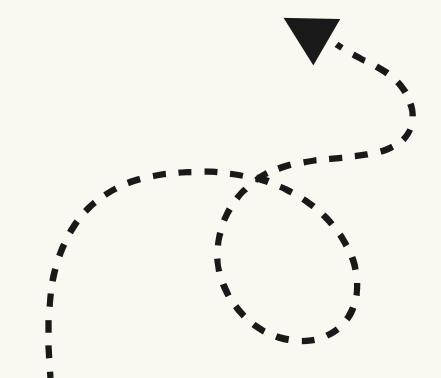


CODE

```
-- Create employee table
CREATE TABLE employee (
ID INT PRIMARY KEY,
person_name VARCHAR(100),
street VARCHAR(100),
city VARCHAR(100));
-- Create company table
CREATE TABLE company (
company_name VARCHAR(100) PRIMARY KEY,
city VARCHAR(100)
```





CODE

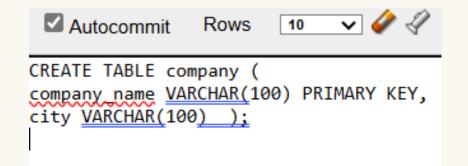
```
-- Create works table
CREATE TABLE works (
 ID INT PRIMARY KEY,
 company_name VARCHAR(100),
 salary DECIMAL(15, 2),
 FOREIGN KEY (ID) REFERENCES employee(ID) ON DELETE CASCADE,
FOREIG KEY(company_name)REFERENCES company(company_name) ON DELETE CASCADE Referencing
company name
-- Create managers table
```

-- Create managers table CREATE TABLE managers (ID INT PRIMARY KEY, FOREIGN KEY (ID) REFERENCES employee(ID) ON DELETE CASCADE, FOREIGN KEY (manager_id) REFERENCES employee(ID) ON DELETE SET NULL);

```
CREATE TABLE managers (
ID INT PRIMARY KEY,
manager id INT,
FOREIGN KEY (ID) REFERENCES <u>employee(ID)</u> ON DELETE CASCADE,
FOREIGN KEY (manager id) REFERENCES <u>employee(ID)</u> ON DELETE SET NULL
);
```

Results	Explain	Describe	Saved SQL	History

ID	MANAGER_ID
2	1
3	1
4	2
5	2



CREATE TABLE works (
ID INT PRIMARY KEY,
company name <u>VARCHAR(</u>100) NOT NULL,
salary <u>DECIMAL(</u>10, 2),
FOREIGN KEY (ID) REFERENCES <u>employee(</u>ID) ON DEL
);

Results Explain Describe Saved SQL Histo	ory
--	-----

Results	Explain [Describe Save
COMPAN	NY_NAME	CITY
TechCorp)	San Francisco
Innovatel	Inc	New York
Alpha So	lutions	Los Angeles

```
        ID
        COMPANY_NAME
        SALARY

        1
        TechCorp
        90000

        2
        HealthInc
        85000

        3
        TechCorp
        78000

        4
        FinServe
        95000

        5
        HealthInc
        82000
```

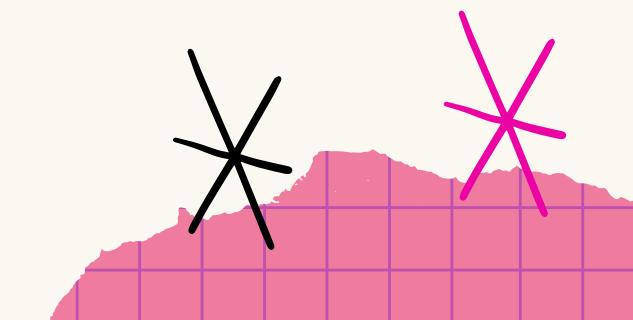
```
CREATE TABLE employee (
ID INT PRIMARY KEY,
person name <u>VARCHAR(</u>100) NOT NULL,
street <u>VARCHAR(</u>100),
city <u>VARCHAR(</u>100)
```

ID	PERSON_NAME	STREET	CITY
1	Alice	123 Main St	New York
2	sdra	456 Elm St	Los Angeles
3	rasha	789 Oak St	Chicago
4	mohamad	321 Pine St	Houston

5

leen

Results Explain Describe Saved SQL History



654 Maple St Phoenix

ठठठठठठठठ

A Find the ID of each customer of the bank who has an account but not a loan.?

Answer:

```
SELECT dep.id
FROM depositor dep
WHERE NOT EXISTS (
SELECT bor.id
FROM borrower bor
WHERE bor.id = dep.id
);
```

```
SELECT dep.id
FROM depositor dep
WHERE NOT EXISTS (
    SELECT bor.id
    FROM borrower bor
    WHERE bor.id = dep.id
);
```

Results Explain Describe Sa

ID

12345

23456

45678



उउउउउउउउ

B Find the ID of each customer who lives on the same street and in the same city as customer '12345'.?

Answer:

```
SELECT customer_id
FROM customer
WHERE (customer_street,
customer_city) =
(
    SELECT customer_street,
customer_city
    FROM customer
    WHERE customer_id = 12345
)
AND customer_id != 12345;
```

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_STREET	CUSTOMER_CITY
12345	John Doe	Main St	Harrison
23456	Jane Smith	Main St	Harrison
34567	Alice Johnson	Broadway	New York
45678	Bob Brown	Main St	Harrison
56789	Eve White	5th Ave	Chicago

```
SELECT customer id
FROM customer
WHERE (customer street, customer city) =
  (
    SELECT customer street, customer city
    FROM customer
    WHERE customer id = 12345
)
AND customer id != 12345;
```

Results Explain Describe Saved SQL Histor

CUSTOMER_ID

23456

45678



800000000

Find the name of each branch that has at least one customer who has an account in the bank and who lives in "Harrison".?

Answer:

SELECT DISTINCT acc.branch_name
FROM account acc
JOIN depositor dep ON
acc.account_number =
dep.account_number
JOIN customer cust ON dep.id =
cust.customer_id
WHERE cust.customer_city = 'Harrison';

SELECT DISTINCT acc.branch_name
FROM account acc
JOIN depositor dep ON acc.account_number = dep.account_number
JOIN customer cust ON dep.id = cust.customer_id
WHERE cust.customer_city = 'Harrison';

Results Explain Describe Saved SQL History

BRANCH_NAME

Harrison Branch

Question:

A From the demand table, find the cumulative total sum for qty?

SELECT day, qty,
SUM(qty) OVER (ORDER BY day
ROWS BETWEEN UNBOUNDED
PRECEDING AND CURRENT ROW) AS
cumulative_sum
FROM
demand;

Answer:

```
SELECT
day,
qty,
SUM(qty) OVER (ORDER BY day ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) AS cumulative sum FROM
demand;
```

DAY	QTY	CUMULATIVE_SUM
1	10	10
2	6	16
3	21	37
4	9	46
6	12	58
7	18	76
8	3	79
9	6	85
10	23	108

Results Explain Describe Saved SQL History

Question:

B From the demand table, find the cumulative total sum for qty?

Answer:

```
SELECT product, day, qty, rank

FROM (

SELECT product, day, qty,

RANK() OVER (PARTITION BY product ORDER BY qty ASC) AS rank

FROM demand2

)

WHERE

rank <= 2;
```

Results Explain Describe Saved SQL History

PRODUCT	DAY	QTY	RANK
Α	2	6	1
Α	4	9	2
В	3	3	1
В	4	6	2

4 rows returned in 0.00 seconds

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