ui5 serve --port 8080 --accept-remote-connections

**login to docker:**

sudo docker exec -it hana\_express bash

**login to hana database:**

/usr/sap/HXE/HDB90/exe/hdbsql -i 90 -d SYSTEMDB -u SYSTEM -p YourStrongPassword123!

**see table names :**

SELECT TABLE\_NAME FROM TABLES WHERE SCHEMA\_NAME = 'SYSTEM';

**see table structure:**

SELECT COLUMN\_NAME, DATA\_TYPE\_NAME, LENGTH, SCALE, IS\_NULLABLE FROM TABLE\_COLUMNS WHERE SCHEMA\_NAME = 'SYSTEM' AND TABLE\_NAME = 'TRACKING\_10';

**create table :**

**TRACKING\_10**

CREATE COLUMN TABLE "SYSTEM"."TRACKING\_10" (

"BROWSER\_ID" NVARCHAR(255),

"CLICKDATA" NVARCHAR(5000),

"ENHANCED\_DATA\_ID" NVARCHAR(255),

"FINGERPRINT\_ID" NVARCHAR(255),

"HOSTNAME" NVARCHAR(255),

"ID" INTEGER NOT NULL,

"IP\_ADDRESS" NVARCHAR(45),

"LANGUAGE" NVARCHAR(50),

"PLATFORM" NVARCHAR(255),

"REFERRER" NVARCHAR(5000),

"SESSION\_ID" NVARCHAR(255),

"TIMESTAMP" TIMESTAMP,

"URL" NVARCHAR(5000),

"USER\_AGENT" NVARCHAR(5000)

);

**create view : LIVE\_SESSIONS\_MV/TRACKING\_10**

CREATE VIEW "LIVE\_SESSIONS\_MV" AS

SELECT

"SESSION\_ID",

"BROWSER\_ID",

"TIMESTAMP" AS "LAST\_ACTIVITY", -- Use TIMESTAMP directly as LAST\_ACTIVITY

"TIMESTAMP" AS "FIRST\_ACTIVITY", -- Use TIMESTAMP directly as FIRST\_ACTIVITY

"URL",

"REFERRER",

"IP\_ADDRESS",

"USER\_AGENT",

"HOSTNAME",

"PLATFORM",

"LANGUAGE",

"FINGERPRINT\_ID",

"CLICKDATA",

"ENHANCED\_DATA\_ID"

FROM

"TRACKING\_10"

WHERE

"TIMESTAMP" >= ADD\_SECONDS(CURRENT\_TIMESTAMP, -300); -- Filter out rows older than 5 minutes

**create table : security\_headers**

CREATE TABLE SYSTEM.security\_headers (

id INTEGER,

tracking\_id BIGINT PRIMARY KEY,

session\_id NVARCHAR(256),

security\_cors\_origin NVARCHAR(1024),

security\_allow\_origin NVARCHAR(1024),

security\_allow\_methods NVARCHAR(1024),

security\_allow\_headers NVARCHAR(1024),

security\_allow\_credentials TINYINT,

security\_expose\_headers NVARCHAR(1024),

security\_max\_age INTEGER,

security\_frame\_ancestors NVARCHAR(1024),

security\_csp NVARCHAR(4000),

security\_referrer\_policy NVARCHAR(1024),

security\_permissions\_policy NVARCHAR(2000),

security\_cross\_origin NVARCHAR(1024),

security\_is\_framed TINYINT,

security\_sandbox NVARCHAR(1024),

dom\_changes\_count INTEGER DEFAULT 0,

dom\_monitoring\_active TINYINT DEFAULT 1,

dom\_last\_change TIMESTAMP,

dom\_added\_elements NVARCHAR(4000),

dom\_removed\_elements NVARCHAR(4000),

dom\_modified\_attributes NVARCHAR(4000),

dom\_sensitive\_changes NVARCHAR(4000),

dom\_security\_violations NVARCHAR(4000),

timestamp TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

hardware\_concurrency INTEGER DEFAULT 0,

platform\_version NVARCHAR(256),

canvas\_fingerprint NVARCHAR(2048),

webgl\_vendor NVARCHAR(1024),

webgl\_renderer NVARCHAR(1024),

web\_driver TINYINT,

max\_touch\_points INTEGER

);

**create view :**

CREATE VIEW "SYSTEM"."LIVE\_SECURITY\_HEADERS\_MV" AS

SELECT

s."ID" AS "id",

s."TRACKING\_ID" AS "tracking\_id",

s."SESSION\_ID" AS "session\_id",

s."SECURITY\_CORS\_ORIGIN" AS "security\_cors\_origin",

s."SECURITY\_ALLOW\_ORIGIN" AS "security\_allow\_origin",

s."SECURITY\_ALLOW\_METHODS" AS "security\_allow\_methods",

s."SECURITY\_ALLOW\_HEADERS" AS "security\_allow\_headers",

s."SECURITY\_ALLOW\_CREDENTIALS" AS "security\_allow\_credentials",

s."SECURITY\_EXPOSE\_HEADERS" AS "security\_expose\_headers",

s."SECURITY\_MAX\_AGE" AS "security\_max\_age",

s."SECURITY\_FRAME\_ANCESTORS" AS "security\_frame\_ancestors",

s."SECURITY\_CSP" AS "security\_csp",

s."SECURITY\_REFERRER\_POLICY" AS "security\_referrer\_policy",

s."SECURITY\_PERMISSIONS\_POLICY" AS "security\_permissions\_policy",

s."SECURITY\_CROSS\_ORIGIN" AS "security\_cross\_origin",

s."SECURITY\_IS\_FRAMED" AS "security\_is\_framed",

s."SECURITY\_SANDBOX" AS "security\_sandbox",

s."DOM\_CHANGES\_COUNT" AS "dom\_changes\_count",

s."DOM\_MONITORING\_ACTIVE" AS "dom\_monitoring\_active",

s."DOM\_LAST\_CHANGE" AS "dom\_last\_change",

s."DOM\_ADDED\_ELEMENTS" AS "dom\_added\_elements",

s."DOM\_REMOVED\_ELEMENTS" AS "dom\_removed\_elements",

s."DOM\_MODIFIED\_ATTRIBUTES" AS "dom\_modified\_attributes",

s."DOM\_SENSITIVE\_CHANGES" AS "dom\_sensitive\_changes",

s."DOM\_SECURITY\_VIOLATIONS" AS "dom\_security\_violations",

s."TIMESTAMP" AS "timestamp",

s."HARDWARE\_CONCURRENCY" AS "hardware\_concurrency",

s."PLATFORM\_VERSION" AS "platform\_version",

s."CANVAS\_FINGERPRINT" AS "canvas\_fingerprint",

s."WEBGL\_VENDOR" AS "webgl\_vendor",

s."WEBGL\_RENDERER" AS "webgl\_renderer",

s."WEB\_DRIVER" AS "web\_driver",

s."MAX\_TOUCH\_POINTS" AS "max\_touch\_points"

FROM

"SYSTEM"."SECURITY\_HEADERS" s

WHERE

s."TIMESTAMP" >= ADD\_SECONDS(CURRENT\_TIMESTAMP, -300); -- Last 5 minutes data

**create table : TERMINATED\_SESSIONS**

CREATE TABLE "TERMINATED\_SESSIONS" (

"SESSION\_ID" NVARCHAR(255) PRIMARY KEY,

"TERMINATED\_AT" TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**To see available views:**

SELECT VIEW\_NAME, VIEW\_TYPE FROM VIEWS WHERE SCHEMA\_NAME = 'SYSTEM';

**To see views columns and definition:**

SELECT VIEW\_NAME, VIEW\_TYPE, DEFINITION FROM VIEWS WHERE SCHEMA\_NAME = 'SYSTEM';

**To see views columns and their data types:**

SELECT COLUMN\_NAME, DATA\_TYPE\_NAME, LENGTH, SCALE FROM VIEW\_COLUMNS WHERE VIEW\_NAME = 'LIVE\_SESSIONS\_MV' AND SCHEMA\_NAME = 'SYSTEM' ORDER BY POSITION;