Database Description

Tables

message_store_messages

Purpose

Holds messages sent by acceptor and initiator sessions for the current session

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	INTEGER	NO		
SESSION_ID	VARCHAR(255)	NO		
MESSAGE	VARCHAR(8192)	NO		
MSG_SEQ_NUM	INTEGER	NO		

Indexes

Record Volume

The volume of this table will correspond to the volume of data sent from acceptor and initiator sessions during a particular session. This volume will vary daily and can be quite high.

message_store_sessions

Purpose

Holds session information for acceptor and initiator sessions

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	INTEGER	NO		
SESSION_ID	VARCHAR(255)	NO		
CREATION_TIME	TIMESTAMP	NO		
SENDER_SEQ_NUM	INTEGER	NO		
TARGET_SEQ_NUM	INTEGER	NO		

Indexes

Record Volume

The volume in this table corresponds to the number of acceptor and initiator sessions. The volume will be low.

exec_reports

Purpose

Tracks execution reports received from the broker

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
ACCOUNT	VARCHAR(255)	YES		
AVG_PRICE	NUMBER(17,7)	NO		
CUM_QTY	NUMBER(17,7)	NO		
EFF_CUM_QTY	NUMBER(17,7)	NO		
EXPIRY	VARCHAR(255)	YES		
IS_OPEN	NUMBER(1,0)	NO		
LAST_PRICE	NUMBER(17,7)	YES		
LAST_QTY	NUMBER(17,7)	YES		
OPTION_TYPE	BIGINT	YES		
ORDER_ID	VARCHAR(255)	NO		
ORD_STATUS	BIGINT	NO		
ORIG_ORDER_ID	VARCHAR(255)	YES		
ROOT_ORDER_ID	VARCHAR(255)	NO		
SECURITY_TYPE	BIGINT	NO		
SEND_TIME	TIMESTAMP	NO		
SIDE	BIGINT	NO		
STRIKE_PRICE	NUMBER(17,7)	YES		
SYMBOL	VARCHAR(255)	NO		
ACTOR_ID	BIGINT	YES		
REPORT_ID	BIGINT	NO		
VIEWER_ID	BIGINT	YES		

Indexes:

1. "exec_reports_pkey" PRIMARY KEY, btree (id)
2. "uk_imdq099u0qa8ob9tt5ljm6f7u" UNIQUE CONSTRAINT, btree (report_id)

Foreign-key constraints:

1. "fk1celhypj9vint37eobsn22s1b" FOREIGN KEY (viewer_id) REFERENCES users(id)
2. "fkfn47lj607ghtt1lfie8adevxc" FOREIGN KEY (actor_id) REFERENCES users(id)
3. "fkn47ta2b6e9wih8b97oubxvd3s" FOREIGN KEY (report_id) REFERENCES reports(id)

Record Volume

The volume of this table corresponds to the number of executions received from the brokers. The volume in this table will be high.

fix_messages

Purpose

Stores raw FIX messages in a common table

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP(19,0)	NO		
UPDATED_COUNT	BIGINT	NO		
MESSAGE	CLOB	NO		

Indexes

1. SYS_C0057108 (ID)

Record Volume

The volume in this table corresponds to the volume of FIX messages handled by the system, both incoming and outgoing. Volume in this table will be very high.

fix_session_attr_dscrptrs

Purpose

Stores FIX session attribute descriptors which are used by the UI to help the user construct FIX sessions

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP(19,0)	NO		
UPDATED_COUNT	BIGINT	NO		
ADVICE	VARCHAR(255 CHAR)	YES		
DEFAULT_VALUE	VARCHAR(255 CHAR)	YES		
DESCRIPTION	VARCHAR(1024 CHAR)	YES		
NAME	VARCHAR(255 CHAR)	NO		
PATTERN	VARCHAR(255 CHAR)	YES		
REQUIRED	NUMBER(1,0)	NO		

Indexes

1. SYS_C0057114 (ID)
2. UK_GB3X058KYH5S4FXW1FI67BYSC (NAME)

Record Volume

The volume in this table corresponds to the number of FIX session attributes that are displayed in the UI. Volume in this table is very low.

fix_session_attributes

Purpose

Stores attributes associated with FIX sessions

Description

Column Name	Type/Length	Null	Data Element Name	Source
FIX_SESSION_ID	BIGINT	NO		
VALUE	VARCHAR(255 CHAR)	YES		
NAME	VARCHAR(255 CHAR)	NO		

Indexes

1. SYS_C0057117 (FIX_SESSION_ID,NAME)
2. UK_27G5LMKIQXLIYC4UTHPEE84Y0 (NAME)

Record Volume

Volume in this table corresponds to the number of attributes for a FIX session multiplied by the number of FIX sessions. Volume in this table will be low.

fix_sessions

Purpose

Stores FIX sessions to be created by the system

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP(19,0)	NO		
UPDATED_COUNT	BIGINT	NO		
AFFINITY	BIGINT	NO		
BROKER_ID	VARCHAR(255 CHAR)	NO		
DESCRIPTION	VARCHAR(255 CHAR)	YES		
HOST	VARCHAR(255 CHAR)	NO		
ACCEPTOR	NUMBER(1,0)	NO		
ENABLED	NUMBER(1,0)	NO		
NAME	VARCHAR(255 CHAR)	NO		
PORT	BIGINT	NO		
SESSION_ID	VARCHAR(255 CHAR)	NO		

Indexes

1. SYS_C0057129 (ID)
2. UK_687UFWJ0WKN28O0QEVJ8FDC65 (BROKER_ID)
3. UK_PCFNP5Y816L25AYQ2LLE6BK8P (SESSION_ID)

Record Volume

The volume in this table corresponds to the number of FIX sessions in the system. The volume in this table will be very low.

id_repository

Purpose

Stores unique identifiers to be used by the system

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
NEXT_ID	BIGINT	YES		

Indexes

1. SYS_C0057133 (ID)

Record Volume

The volume in this table will be very low, typically a single record.

incoming_fix_messages

Purpose

Stores incoming messages to a FIX session

Description

Column Name	Type/Length	Null	Data Element Name	Source

ID	BIGINT	NO		
MESSAGE	VARCHAR(4000 CHAR)	NO		
MSG_SEQ_NUM	BIGINT	NO		
MSG_TYPE	VARCHAR(255 CHAR)	NO		
SENDING_TIME	TIMESTAMP	NO		
FIX_SESSION	VARCHAR(255 CHAR)	NO		

Indexes

1. SYS_C0057140 (ID)

Record Volume

The volume in this table corresponds to the volume of FIX messages being received by the system for all sessions. The volume in this table will be very high.

outgoing_messages

Purpose

Stores messages created and sent out by DARE

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
BROKER_ID	VARCHAR(255 CHAR)	NO		
MESSAGE_TYPE	VARCHAR(255 CHAR)	NO		
MSG_SEQ_NUM	BIGINT	YES		
SENDER_COMP_ID	VARCHAR(255 CHAR)	NO		
SESSION_ID	VARCHAR(255 CHAR)	NO		
TARGET_COMP_ID	VARCHAR(255 CHAR)	NO		
FIX_MESSAGE_ID	BIGINT	NO		

Indexes

1. SYS_C0057201 (ID)
2. UK_HXVC6VRTMW1SWIK69WXT0DRLC (FIX_MESSAGE_ID)
3. OUTGOING_MESSAGES_INDEX1 (SENDER_COMP_ID,TARGET_COMP_ID,MSG_SEQ_NUM)

Record Volume

The volume in this table corresponds to the number of messages sent out from LVTS to brokers. Volume in this table will be moderate to high.

permissions

Purpose

Stores permissions known to the system. Actions in the system can execute a check for a particular permission.

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
DESCRIPTION	VARCHAR(255 CHAR)	YES		

NAME	VARCHAR(255 CHAR)	NO		

Indexes

1. SYS_C0057206 (ID)
2. UK_PNVTWLIIS6P05PN6I3NDJRQT2 (NAME)

Record Volume

The volume in this table corresponds to the number of distinct permissions defined to the system. The volume in this table will be low.

reports

Purpose

Stores all application messages received from the broker

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	NUMBER(10,)	NO		
BROKER_ID	VARCHAR(255 CHAR)	YES		
HIERARCHY	BIGINT	YES		
ORIGINATOR	BIGINT	YES		
REPORT_TYPE	BIGINT	NO		
MSG_SEQ_NUM	BIGINT	NO		
ORDER_ID	VARCHAR(255 CHAR)	NO		
REPORT_ID	BIGINT	NO		
SEND_TIME	TIMESTAMP	NO		
SESSION_ID	VARCHAR(255 CHAR)	NO		
ACTOR_ID	BIGINT	YES		
FIX_MESSAGE_ID	BIGINT	NO		
VIEWER_ID	BIGINT	YES		

Indexes

1. SYS_C0057217 (ID)
2. UK_AELY7CHRVTQWV4XFM76XUJ5BH (REPORT_ID)
3. UK_CA90A4KKDYCPON22YNLI3D6OI (FIX_MESSAGE_ID)
4. REPORTS_INDEX1 (msg_seq_num,order_id,session_id)
5. REPORTS_INDEX2 (MSG_SEQ_NUM,ORDER_ID)

Record Volume

The volume in this table corresponds to the number of application messages received from the broker. The volume in this table will be very high.

roles

Purpose

Defines roles for users that describe a set of permissions that can be assigned

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		

UPDATE_COUNT	BIGINT	NO		
DESCRIPTION	VARCHAR(255 CHAR)	YES		
NAME	VARCHAR(255 CHAR)	NO		

Indexes

1. SYS_C0057222 (ID)
2. UK_OFX66KERUAPI6VYQPV6F2OR37 (NAME)

Record Volume

The volume in this table corresponds to the number of distinct roles defined to the system. The volume of this table will be very low.

roles_permissions

Purpose

Join table that assigns permissions to roles

Description

Column Name	Type/Length	Null	Data Element Name	Source
ROLES_ID	BIGINT	NO		
PERMISSIONS_ID	BIGINT	NO		

Indexes

1. SYS_C0057225 (ROLES_ID,PERMISSIONS_ID)

Record Volume

This table is used as a join table in a many-to-many relationship between roles and permissions. The volume of this table will be very low.

roles_users

Purpose

Join table that assigns roles to users

Description

Column Name	Type/Length	Null	Data Element Name	Source
ROLES_ID	BIGINT	NO		
SUBJECTS_ID	BIGINT	NO		

Indexes

1. SYS_C0057228 (ROLES_ID,SUBJECTS_ID)

Record Volume

This table is used as a join table in a many-to-many relationship between roles and users. The volume of this table will be very low.

system_info

Purpose

Contains key/value pairs that describe system attributes like current schema version, etc

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		

LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
DESCRIPTION	VARCHAR(255 CHAR)	YES		
NAME	VARCHAR(255 CHAR)	NO		
VALUE	VARCHAR(255 CHAR)	YES		

Indexes

1. SYS_C0057233 (ID)
2. UK_457M1GI0J3JFT2B5WQ33ICCXK (NAME)

Record Volume

The volume in this table will be very low.

user_attributes

Purpose

Associates attributes with a user. Attributes can be used for a variety of system application functions (like preferences, e.g.)

Description

Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
ATTRIBUTE	CLOB	NO		
USER_ATTRIBUTE_TYPE	BIGINT	NO		
USER_ID	BIGINT	NO		

Indexes

1. SYS_C0057240 (ID)

Record Volume

The volume in this table corresponds to the number of users and the number of attributes stored for each user. The volume in this table will scale as a linear function of the number of users.

users

Purpose

Stores users for the application

Description

Column Name	Type/Length	Null	Data Element Name	Source
Column Name	Type/Length	Null	Data Element Name	Source
ID	BIGINT	NO		
LAST_UPDATED	TIMESTAMP	NO		
UPDATE_COUNT	BIGINT	NO		
DESCRIPTION	VARCHAR(255 CHAR)	YES		
NAME	VARCHAR(255 CHAR)	NO		
IS_ACTIVE	NUMBER(1,0)	NO		
PASSWORD	VARCHAR(255 CHAR)	NO		
IS_SUPERUSER	NUMBER(1,0)	NO		

USER_DATA	CLOB	YES		

Indexes

1. SYS_C0057248 (ID)
2. UK_3G1J96G94XPK3LPXL2QBL985X (NAME)

Record Volume

The volume of this table is related to the number of users defined to the system. The volume of this table will be low to moderate.