# **Admin Access Table**

CREATE TABLE "PRCSA"."ADMIN\_ACCESS"

(

"ADMIN\_ACCESS\_ID" NUMBER,

CONSTRAINT "ADMIN\_ACCESS\_ID\_PK"

PRIMARY KEY ("ADMIN\_ACCESS\_ID"),

"ADMIN\_USER\_NAME" VARCHAR2(20 BYTE)

CONSTRAINT "ADMIN\_ACCESS\_USER\_NAME\_NN" NOT NULL ENABLE,

"PASSWORD\_HASHED" VARCHAR2(70 BYTE)

CONSTRAINT "ADMIN\_ACCESS\_PASSWORD\_NN" NOT NULL ENABLE

CONSTRAINT "ADMIN\_ACCESS\_PASSWORD\_UQ"

UNIQUE ("PASSWORD\_HASHED")

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."ADMIN\_ACCESS\_TRIGGER"

BEFORE INSERT ON admin\_access

FOR EACH ROW

BEGIN

SELECT admin\_user\_seq.nextval INTO :NEW.admin\_access\_id FROM dual;

END;

# **Advert Types**

CREATE TABLE "PRCSA"."ADVERT\_TYPES"

(

"ADVERT\_TYPE\_ID" NUMBER,

CONSTRAINT "ADVERT\_TYPES\_ID" PRIMARY KEY ("ADVERT\_TYPE\_ID"),

"NAME" VARCHAR2(20 BYTE)

CONSTRAINT "ADVERT\_TYPES\_NAME\_NN"

NOT NULL ENABLE

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."ADVERT\_TYPES\_TRIGGER"

BEFORE INSERT ON advert\_types

FOR EACH ROW

BEGIN

SELECT advert\_types\_seq.nextval INTO :NEW.advert\_type\_id FROM dual;

END;

# **Adverts**

CREATE TABLE "PRCSA"."ADVERTS"

(

"ADVERT\_ID" NUMBER,

CONSTRAINT "ADVERTS\_ADVERT\_ID\_PK"

PRIMARY KEY ("ADVERT\_ID")

"ADVERT\_TYPE\_ID" NUMBER

CONSTRAINT "ADVERTS\_ADVERT\_TYPE\_FK"

FOREIGN KEY ("ADVERT\_TYPE\_ID") REFERENCES "PRCSA"."ADVERT\_TYPES" ("ADVERT\_TYPE\_ID") ENABLE,

CONSTRAINT "ADVERTS\_ADVERT\_TYPE\_NN"NOT NULL ENABLE,

"MEMBER\_ID" NUMBER

CONSTRAINT "ADVERTS\_MEMBER\_ID\_FK" FOREIGN KEY ("MEMBER\_ID") REFERENCES "PRCSA"."MEMBERS" ("MEMBER\_ID") ENABLE,

CONSTRAINT "ADVERTS\_MEMBER\_ID\_NN" NOT NULL ENABLE,

"CATEGORY\_ID" NUMBER

CONSTRAINT "ADVERTS\_CATEGORY\_ID\_FK" FOREIGN KEY ("CATEGORY\_ID")

REFERENCES "PRCSA"."CATEGORIES" ("CATEGORY\_ID") ENABLE,

CONSTRAINT "ADVERTS\_CATEGORY\_ID\_NN" NOT NULL ENABLE,

"ITEM\_TYPE\_ID" NUMBER

CONSTRAINT "ADVERTS\_ITEM\_TYPE\_FK" FOREIGN KEY("ITEM\_TYPE\_ID")

REFERENCES "PRCSA"."ITEM\_TYPES" ("ITEM\_TYPE\_ID") ENABLE

CONSTRAINT "ADVERTS\_ITEM\_TYPE\_NN"NOT NULL ENABLE,

"TITLE" VARCHAR2(100 BYTE)

CONSTRAINT "ADVERTS\_TITLE\_NN" NOT NULL ENABLE,

"DESCRIPTION" VARCHAR2(500 BYTE)

CONSTRAINT "ADVERTS\_DESCRIPTION\_NN" NOT NULL ENABLE,

"DATE\_ADV" DATE

CONSTRAINT "ADVERTS\_DATE\_ADV\_NN" NOT NULL ENABLE,

"DATE\_EXP" DATE

CONSTRAINT "ADVERTS\_DATE\_EXP\_NN" NOT NULL ENABLE,

"COST" NUMBER

CONSTRAINT "ADVERTS\_COST\_NN" NOT NULL ENABLE,

"TRANSPORT" CHAR(1 BYTE)

CONSTRAINT "ADVERTS\_TRANSPORT\_NN" NOT NULL ENABLE,

CONSTRAINT "ADVERTS\_TRANSPORT\_CK"

CHECK (transport IN ('N','Y')) ENABLE,

CONSTRAINT "CHECK\_TRANSPORT"

CHECK (TRANSPORT = 'Y' OR TRANSPORT = 'N') ENABLE,

"DATE\_COMPLETED" DATE,

"IMAGE" BLOB,

"IS\_ACTIVE" VARCHAR2(1 BYTE) NOT NULL ENABLE,

"DUMMY\_INDEXING" VARCHAR2(1 BYTE),

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."ADVERTS\_TRIGGER"

BEFORE INSERT ON adverts

FOR EACH ROW

BEGIN

SELECT adverts\_seq.nextval INTO :NEW.advert\_id FROM dual;

END;

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."IS\_ACTIVE\_ADVERT"

BEFORE INSERT ON ADVERTS

FOR EACH ROW

BEGIN

SELECT 'Y' INTO :NEW.is\_active FROM dual;

END;

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."ADVERTS\_DATE\_TRIGGER"

BEFORE INSERT ON adverts

FOR EACH ROW

BEGIN

:NEW.DATE\_ADV:= SYSDATE;

END;

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."ADVERTS\_DATE\_EXP\_TRIGGER"

BEFORE INSERT ON adverts

FOR EACH ROW

BEGIN

:NEW.DATE\_EXP:= SYSDATE + 14;

END;

# **Bids**

CREATE TABLE "PRCSA"."BIDS"

(

"BID\_ID" NUMBER,

CONSTRAINT "BID\_BID\_ID\_PK" PRIMARY KEY ("BID\_ID"),

"ADVERT\_ID" NUMBER NOT NULL ENABLE,

CONSTRAINT "BID\_ADVERT\_ID\_FK" FOREIGN KEY ("ADVERT\_ID") REFERENCES "PRCSA"."ADVERTS" ("ADVERT\_ID") ENABLE,

"ADVERT\_TYPE\_ID" NUMBER NOT NULL ENABLE,

CONSTRAINT "BID\_AD\_TYPE\_ID\_FK" FOREIGN KEY ("ADVERT\_TYPE\_ID") REFERENCES "PRCSA"."ADVERT\_TYPES" ("ADVERT\_TYPE\_ID") ENABLE,

"OFFERER" NUMBER,

CONSTRAINT "BID\_OFFERER\_FK" FOREIGN KEY ("OFFERER")

REFERENCES "PRCSA"."MEMBERS" ("MEMBER\_ID") ENABLE,

"OFFEREE" NUMBER,

CONSTRAINT "BID\_OFFEREE\_FK" FOREIGN KEY ("OFFEREE")

REFERENCES "PRCSA"."MEMBERS" ("MEMBER\_ID") ENABLE,

"TEXT" VARCHAR2(500 BYTE)

CONSTRAINT "BID\_TEXT\_NN" NOT NULL ENABLE,

"BID\_DATE" TIMESTAMP (6)

CONSTRAINT "BID\_DATE\_NN" NOT NULL ENABLE,

"BID\_COMPLETED" VARCHAR2(1 BYTE) NOT NULL ENABLE,

"IS\_ACCEPTED" VARCHAR2(1 BYTE) NOT NULL ENABLE,

"RETURN\_MESSAGE" VARCHAR2(500 BYTE)

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."BIDS\_TRIGGER"

BEFORE INSERT ON bids

FOR EACH ROW

BEGIN

SELECT bids\_seq.nextval INTO :NEW.bid\_id FROM dual;

END;

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."BIDS\_DATE\_TRIGGER"

BEFORE INSERT ON bids

FOR EACH ROW

BEGIN

:NEW.BID\_DATE := SYSDATE;

END;

# **Categories**

CREATE TABLE "PRCSA"."CATEGORIES"

(

"CATEGORY\_ID" NUMBER,

CONSTRAINT "CATGEORIES\_CATEGORY\_ID\_PK" PRIMARY KEY ("CATEGORY\_ID")REFERENCES "PRCSA"."ADVERTS" ("ADVERT\_ID") ENABLE,

"TYPE" VARCHAR2(30 BYTE)

CONSTRAINT "CATEGORIES\_TYPE\_NN" NOT NULL ENABLE,

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."CATEGORIES\_TRIGGER"

BEFORE INSERT ON categories

FOR EACH ROW

BEGIN

SELECT categories\_seq.nextval INTO :NEW.category\_id FROM dual;

END;

# **Item Types**

CREATE TABLE "PRCSA"."ITEM\_TYPES"

(

"ITEM\_TYPE\_ID" NUMBER,

CONSTRAINT "ITEMS\_ITEM\_ID\_PK" PRIMARY KEY ("ITEM\_TYPE\_ID")

"ITEM\_TYPE\_DESCRIPTION" VARCHAR2(200 BYTE) ,

CONSTRAINT "ITEM\_TYPES\_DES\_NN" NOT NULL ENABLE

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."ITEM\_TYPES\_TRIGGER"

BEFORE INSERT ON item\_types

FOR EACH ROW

BEGIN

SELECT item\_types\_seq.nextval INTO :NEW.item\_type\_id FROM dual;

END;

# **Members**

CREATE TABLE "PRCSA"."MEMBERS"

(

"MEMBER\_ID" NUMBER,

CONSTRAINT "MEMBERS\_MEMBER\_ID\_PK" PRIMARY KEY ("MEMBER\_ID"),

"FORENAME" VARCHAR2(50 BYTE)

CONSTRAINT "MEMBERS\_FORENAME\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_FORENAME" CHECK (REGEXP\_LIKE(FORENAME,'^[A-Za-z]+$')) ENABLE,

"SURNAME" VARCHAR2(50 BYTE)

CONSTRAINT "MEMBERS\_SURNAME\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_SURNAME" CHECK (REGEXP\_LIKE(SURNAME,'^[A-Za-z]+$')) ENABLE,

"DATE\_OF\_BIRTH" DATE

CONSTRAINT "MEMBERS\_DATE\_OF\_BIRTH\_NN" NOT NULL ENABLE,

"BALANCE" NUMBER

CONSTRAINT "MEMBERS\_BALANCE\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_BALANCE" CHECK (BALANCE > 0) ENABLE,

"ADDRESS\_1" VARCHAR2(150 BYTE)

CONSTRAINT "MEMBERS\_ADDRESS\_1\_NN" NOT NULL ENABLE,

"ADDRESS\_2" VARCHAR2(150 BYTE),

"CITY" VARCHAR2(30 BYTE)

CONSTRAINT "MEMBERS\_CITY\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_CITY" CHECK (REGEXP\_LIKE(CITY,'^[A-Za-z]+$')) ENABLE,

"POSTCODE" VARCHAR2(10 BYTE)

CONSTRAINT "MEMBERS\_POSTCODE\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_POSTCODE" CHECK (REGEXP\_LIKE(POSTCODE,'^[A-Z]{1,2}[0-9][0-9A-Z]? ?[0-9][A-BD-HJLNP-UW-Z]{2}$')) ENABLE,

"CONTACT\_NUMBER" VARCHAR2(15 BYTE)

CONSTRAINT "MEMBERS\_CONTACT\_NUMBER\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_NUMBER" CHECK (CONTACT\_NUMBER > 9) ENABLE,

"EMAIL" VARCHAR2(255 BYTE)

CONSTRAINT "MEMBERS\_EMAIL\_NN" NOT NULL ENABLE,

CONSTRAINT "MEMBERS\_EMAIL\_UQ" UNIQUE ("EMAIL"),

"IS\_ACTIVE" VARCHAR2(1 BYTE) NOT NULL ENABLE,

"DUMMY\_INDEXING" VARCHAR2(1 BYTE)

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."MEMBERS\_TRIGGER"

BEFORE INSERT ON members

FOR EACH ROW

BEGIN

SELECT members\_seq.nextval INTO :NEW.member\_id FROM dual;

END;

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."IS\_ACTIVE\_MEMBER"

BEFORE INSERT ON MEMBERS

FOR EACH ROW

BEGIN

SELECT 'Y' INTO :NEW.is\_active FROM dual;

END;

# **Reviews**

CREATE TABLE "PRCSA"."REVIEWS"

(

"REVIEW\_ID" NUMBER,

CONSTRAINT "REVIEWS\_COMPANY\_ID\_PK" PRIMARY KEY ("REVIEW\_ID"),

"TRANSACTION\_ID" NUMBER

CONSTRAINT "REVIEWS\_COMPANY\_NAME\_NN" NOT NULL ENABLE,

CONSTRAINT "REVIEWS\_TRANS\_ID\_FK" FOREIGN KEY ("TRANSACTION\_ID") REFERENCES "PRCSA"."TRANSACTIONS" ("TRANSACTION\_ID") ENABLE,

"REVIEW\_VALUE" NUMBER

CONSTRAINT "REVIEW\_VALUE\_NN" NOT NULL ENABLE,

CONSTRAINT "CHECK\_REVIEW\_VALUE" CHECK (REVIEW\_VALUE > 0) ENABLE,

"REVIEW\_TEXT" VARCHAR2(200 BYTE)

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."REVIEWS\_TRIGGER"

BEFORE INSERT ON reviews

FOR EACH ROW

BEGIN

SELECT reviews\_seq.nextval INTO :NEW.review\_id FROM dual;

END;

Rules

CREATE TABLE "PRCSA"."RULES"

( "RULE\_ID" NUMBER,

CONSTRAINT "RULES\_RULE\_ID\_PK" PRIMARY KEY ("RULE\_ID"),

"RULE" VARCHAR2(1000 BYTE)

CONSTRAINT "RULES\_RULE\_NN" NOT NULL ENABLE

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."RULES\_TRIGGER"

BEFORE INSERT ON rules

FOR EACH ROW

BEGIN

SELECT rules\_seq.nextval INTO :NEW.rule\_id FROM dual;

END;

# **Sessions**

CREATE TABLE "PRCSA"."SESSIONS"

(

"SESSION\_ID" NUMBER,

CONSTRAINT "SESSIONS\_SESSION\_ID\_PK" PRIMARY KEY ("SESSION\_ID"),

"MEMBER\_ID" NUMBER NOT NULL ENABLE,

CONSTRAINT "SESSIONS\_MEMBER\_ID\_FK" FOREIGN KEY ("MEMBER\_ID") REFERENCES "PRCSA"."MEMBERS" ("MEMBER\_ID") ENABLE,

"SESSION\_DATE" TIMESTAMP (6),

CONSTRAINT "SESSIONS\_DATE\_NN" NOT NULL ENABLE

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."SESSIONS\_TRIGGER"

BEFORE INSERT ON sessions

FOR EACH ROW

BEGIN

SELECT sessions\_seq.nextval INTO :NEW.session\_id FROM dual;

END;

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."SESSIONS\_DATE\_TRIGGER"

BEFORE INSERT ON sessions

FOR EACH ROW

BEGIN

:NEW.SESSION\_DATE := SYSDATE;

END;

# **Transactions**

CREATE TABLE "PRCSA"."TRANSACTIONS"

(

"TRANSACTION\_ID" NUMBER,

CONSTRAINT "TRANSACATIONS\_TRANS\_ID\_PK" PRIMARY KEY ("TRANSACTION\_ID")

"ADVERT\_ID" NUMBER,

CONSTRAINT "TRANSACTIONS\_ADV\_ID\_FK" FOREIGN KEY ("ADVERT\_ID") REFERENCES "PRCSA"."ADVERTS" ("ADVERT\_ID") ENABLE,

"PAYER" NUMBER

CONSTRAINT "TRANSACTIONS\_PAYER\_NN" NOT NULL ENABLE,

CONSTRAINT "TRANSACTIONS\_PAYER\_FK" FOREIGN KEY ("PAYER")

REFERENCES "PRCSA"."MEMBERS" ("MEMBER\_ID") ENABLE,

"PAYEE" NUMBER

CONSTRAINT "TRANSACTIONS\_PAYEE\_NN" NOT NULL ENABLE,

CONSTRAINT "TRANSACTIONS\_PAYEE\_FK" FOREIGN KEY ("PAYEE")REFERENCES "PRCSA"."MEMBERS" ("MEMBER\_ID") ENABLE,

"CREDIT\_PAID" NUMBER

CONSTRAINT "TRANSACTIONS\_CREDITS\_NN" NOT NULL ENABLE,

"DATE\_COMPLETED" TIMESTAMP (6)

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."TRANSACTIONS\_TRIGGER"

BEFORE INSERT ON transactions

FOR EACH ROW

BEGIN

SELECT transactions\_seq.nextval INTO :NEW.transaction\_id FROM dual;

END;

# **User Access**

CREATE TABLE "PRCSA"."USER\_ACCESS"

(

"USER\_ACCESS\_ID" NUMBER,

CONSTRAINT "USER\_ACCESS\_ID\_PK" PRIMARY KEY ("USER\_ACCESS\_ID")

"EMAIL" VARCHAR2(255 BYTE)

CONSTRAINT "USER\_ACCESS\_EMAIL\_NN" NOT NULL ENABLE,

"PASSWORD\_HASH" VARCHAR2(70 BYTE)

CONSTRAINT "PASSWORD\_HASH\_NN" NOT NULL ENABLE,

CONSTRAINT "PASSWORD\_HASH\_UQ" UNIQUE ("PASSWORD\_HASH")

)

CREATE OR REPLACE EDITIONABLE TRIGGER "PRCSA"."USER\_ACCESS\_TRIGGER"

BEFORE INSERT ON user\_access

FOR EACH ROW

BEGIN

SELECT user\_access\_seq.nextval INTO :NEW.user\_access\_id FROM dual;

END;