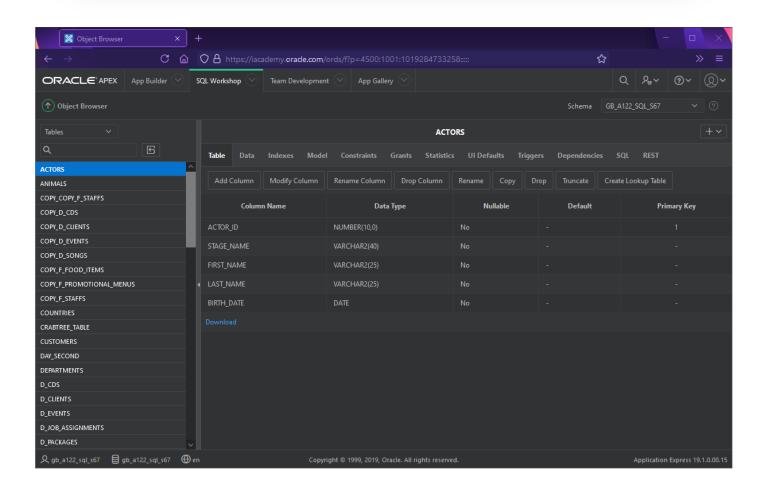# OracleFlix

An Oracle PL/SQL RDBMS project by Matthew Crabtree, June 2021

Sections 1 & 2: Working with DDL statements, creating & managing constraints

```sql
1  create table actors(
2  actor_id number(10,0) constraint actor_id_pk primary key,
3  stage_name varchar2(40) constraint stage_name_nn not null,
4  first_name varchar2(25) constraint first_name_nn not null,
5  last_name varchar2(25) constraint last_name_nn not null,
6  birth_date date constraint birth_date_nn not null
7  );
```

```
1   create table movies(
2   title_id number(10,0) constraint title_id_pk primary key,
3   title varchar2(60) constraint title_nn not null,
4   description varchar2(400) constraint description_nn not null,
5   rating varchar2(4) constraint rating_chk check (rating in ('g', 'pg', 'r', 'pg13')),
6   category varchar2(20) constraint category_chk check (category in ('drama', 'comedy', 'action', 'child', 'scifi', 'documentary')),
7   release_date date constraint release_date_nn not null
8   );
```
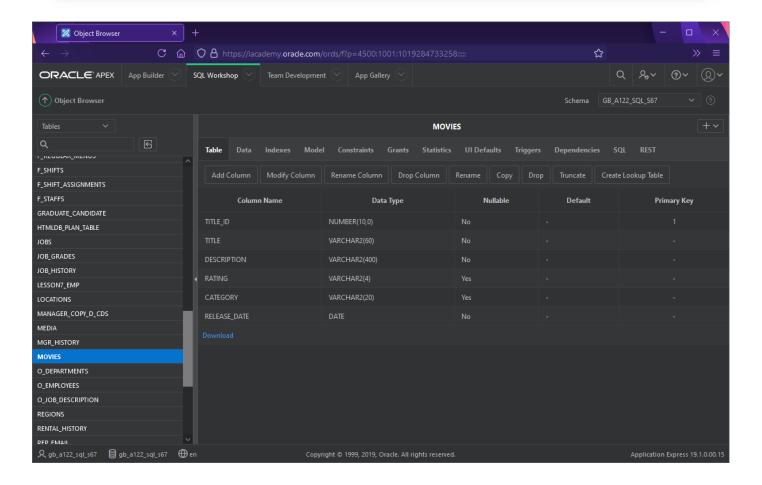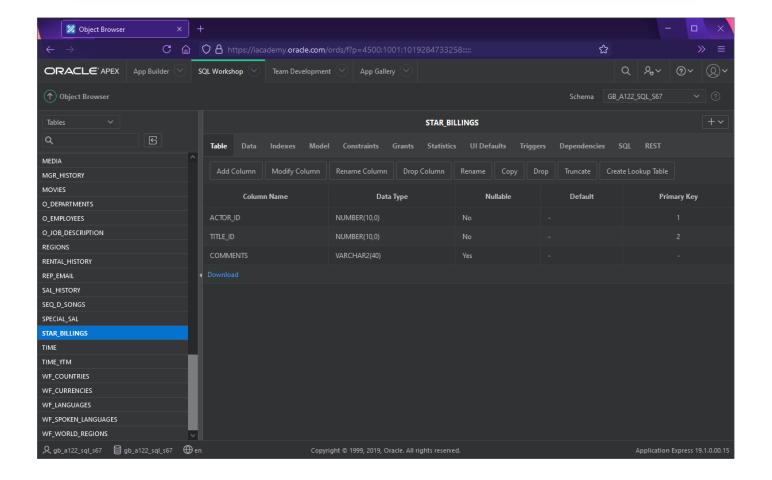

ORACLE APEX   App Builder ⌄   SQL Workshop ⌄   Team Development ⌄   App Gallery ⌄

Object Browser

Schema   GB_A122_SQL_S67 ⌄

Tables ⌄

MOVIES

Table | Data | Indexes | Model | Constraints | Grants | Statistics | UI Defaults | Triggers | Dependencies | SQL | REST

Add Column | Modify Column | Rename Column | Drop Column | Rename | Copy | Drop | Truncate | Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
TITLE_ID	NUMBER(10,0)	No	-	1
TITLE	VARCHAR2(60)	No	-	-
DESCRIPTION	VARCHAR2(400)	No	-	-
RATING	VARCHAR2(4)	Yes	-	-
CATEGORY	VARCHAR2(20)	Yes	-	-
RELEASE_DATE	DATE	No	-	-

Download

Sidebar tables list:
F_SHIFTS
F_SHIFT_ASSIGNMENTS
F_STAFFS
GRADUATE_CANDIDATE
HTMLDB_PLAN_TABLE
JOBS
JOB_GRADES
JOB_HISTORY
LESSON7_EMP
LOCATIONS
MANAGER_COPY_D_CDS
MEDIA
MGR_HISTORY
MOVIES
O_DEPARTMENTS
O_EMPLOYEES
O_JOB_DESCRIPTION
REGIONS
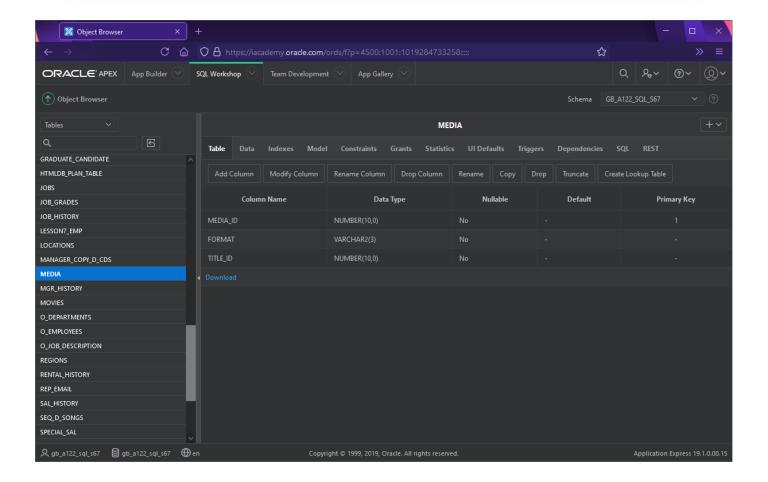RENTAL_HISTORY
REP_EMAIL

gb_a122_sql_s67   gb_a122_sql_s67   en

```sql
create table star_billings(
actor_id number(10,0) constraint actor_id_fk references actors(actor_id),
title_id number(10,0) constraint title_id_fk references movies(title_id),
comments varchar2(40),
constraint actor_id_title_id_pk primary key (actor_id, title_id)
);
```
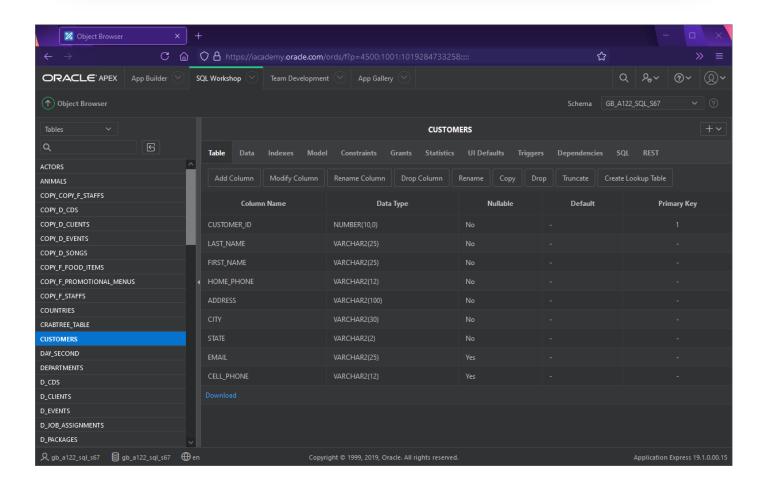
⬆ Object Browser   Schema GB_A122_SQL_S67 ⌄ ⍰

Tables ⌄

🔍   ⟲

MEDIA
MGR_HISTORY
MOVIES
O_DEPARTMENTS
O_EMPLOYEES
O_JOB_DESCRIPTION
REGIONS
RENTAL_HISTORY
REP_EMAIL
SAL_HISTORY
SEQ_D_SONGS
SPECIAL_SAL
STAR_BILLINGS
TIME
TIME_YTM
WF_COUNTRIES
WF_CURRENCIES
WF_LANGUAGES
WF_SPOKEN_LANGUAGES
WF_WORLD_REGIONS

STAR_BILLINGS   + ⌄

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST

Add Column | Modify Column | Rename Column | Drop Column | Rename | Copy | Drop | Truncate | Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
ACTOR_ID	NUMBER(10,0)	No	-	1
TITLE_ID	NUMBER(10,0)	No	-	2
COMMENTS	VARCHAR2(40)	Yes	-	-

Download

```
1   create table media(
2   media_id number(10,0) constraint media_id_pk primary key,
3   format varchar2(3) constraint media_format_nn not null,
4   title_id number(10,0) constraint title_id_nn not null ,
5   constraint media_title_id_fk foreign key(title_id) references movies(title_id)
6   );
```


Object Browser

ORACLE APEX   App Builder   SQL Workshop   Team Development   App Gallery

Object Browser   Schema   GB_A122_SQL_S67

Tables

GRADUATE_CANDIDATE
HTMLDB_PLAN_TABLE
JOBS
JOB_GRADES
JOB_HISTORY
LESSON7_EMP
LOCATIONS
MANAGER_COPY_D_CDS
MEDIA
MGR_HISTORY
MOVIES
O_DEPARTMENTS
O_EMPLOYEES
O_JOB_DESCRIPTION
REGIONS
RENTAL_HISTORY
REP_EMAIL
SAL_HISTORY
SEQ_D_SONGS
SPECIAL_SAL

MEDIA

Table   Data   Indexes   Model   Constraints   Grants   Statistics   UI Defaults   Triggers   Dependencies   SQL   REST

Add Column   Modify Column   Rename Column   Drop Column   Rename   Copy   Drop   Truncate   Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
MEDIA_ID	NUMBER(10,0)	No	-	1
FORMAT	VARCHAR2(3)	No	-	-
TITLE_ID	NUMBER(10,0)	No	-	-

Download

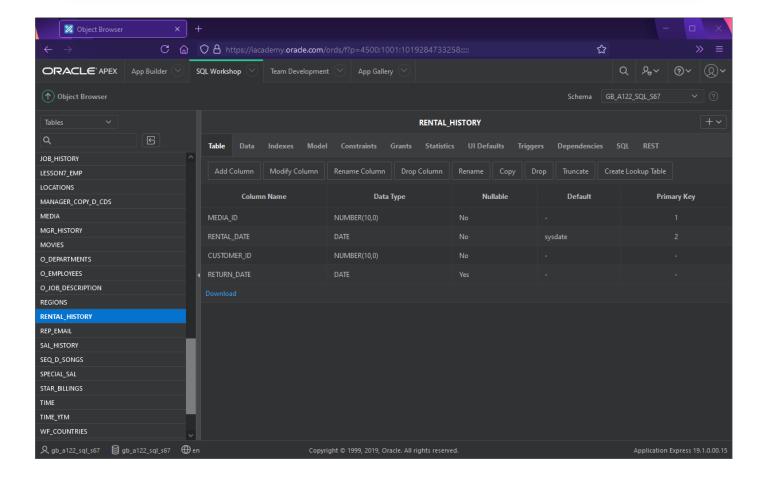gb_a122_sql_s67   gb_a122_sql_s67   en

```
1   create table customers(
2   customer_id number(10,0) constraint customers_customer_id_pk primary key,
3   last_name varchar2(25) constraint customers_last_name_nn not null,
4   first_name varchar2(25) constraint customers_first_name_nn not null,
5   home_phone varchar2(12) constraint customers_home_phone_nn not null,
6   address varchar2(100) constraint customers_address_nn not null,
7   city varchar2(30) constraint customers_city_nn not null,
8   state varchar2(2) constraint customers_state_nn not null,
9   email varchar2(25),
10  cell_phone varchar2(12)
11  );
```


Oracle APEX — Object Browser — CUSTOMERS

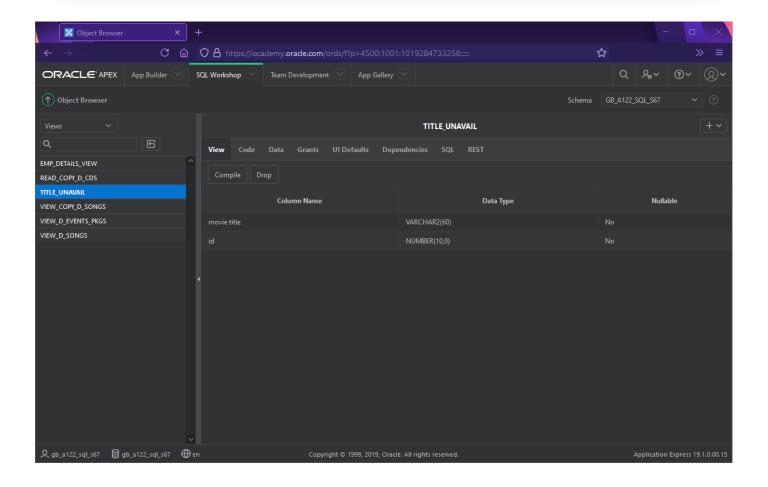| Column Name	Data Type	Nullable	Default	Primary Key
CUSTOMER_ID	NUMBER(10,0)	No	-	1
LAST_NAME	VARCHAR2(25)	No	-	-
FIRST_NAME	VARCHAR2(25)	No	-	-
HOME_PHONE	VARCHAR2(12)	No	-	-
ADDRESS	VARCHAR2(100)	No	-	-
CITY	VARCHAR2(30)	No	-	-
STATE	VARCHAR2(2)	No	-	-
EMAIL	VARCHAR2(25)	Yes	-	-
CELL_PHONE	VARCHAR2(12)	Yes	-	-

Download

```sql
1  create table rental_history(
2  media_id number(10,0) constraint media_id_fk references media(media_id),
3  rental_date date default sysdate,
4  customer_id number(10,0) constraint customer_id_nn not null,
5  return_date date,
6  constraint cust_id_cust_id_fk foreign key(customer_id) references customers(customer_id),
7  constraint media_id_rental_date_pk primary key (media_id, rental_date)
8  );
```
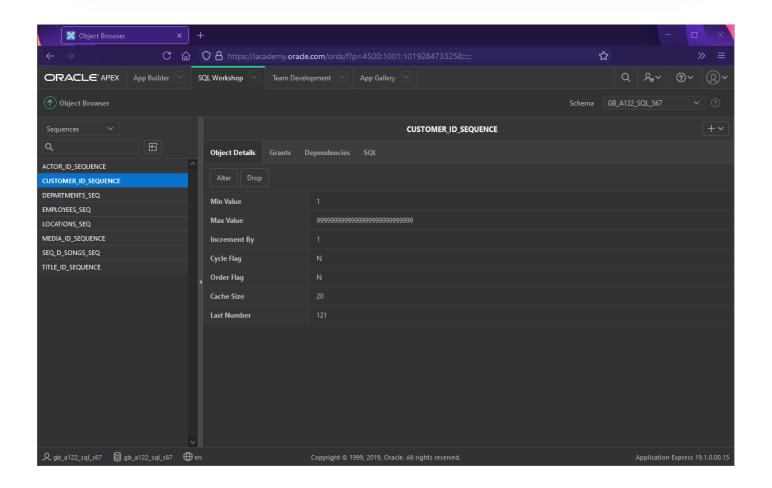

Column Name	Data Type	Nullable	Default	Primary Key
MEDIA_ID	NUMBER(10,0)	No	-	1
RENTAL_DATE	DATE	No	sysdate	2
CUSTOMER_ID	NUMBER(10,0)	No	-	-
RETURN_DATE	DATE	Yes	-	-

Download

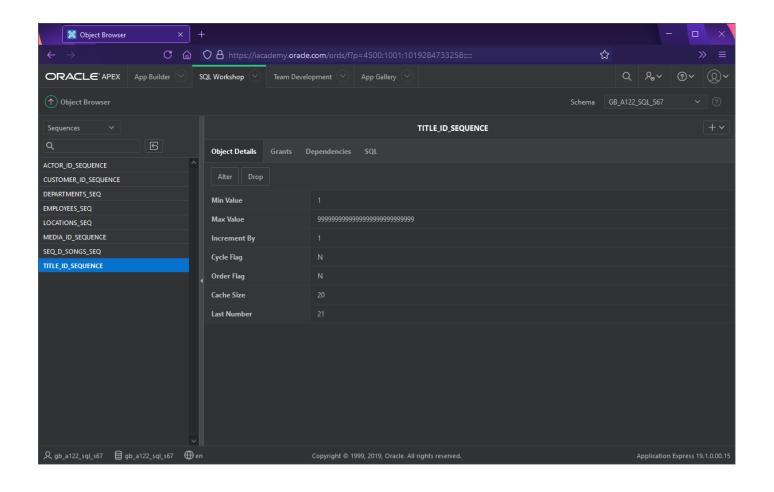# Section 3: Creating and managing views

```
1  create view title_unavail("movie title", "id") as
2  select movies.title, media.media_id
3  from rental_history
4  inner join media on rental_history.media_id = media.media_id inner join movies on media.title_id = movies.title_id
5  where rental_history.return_date is null
6  with read only;
```
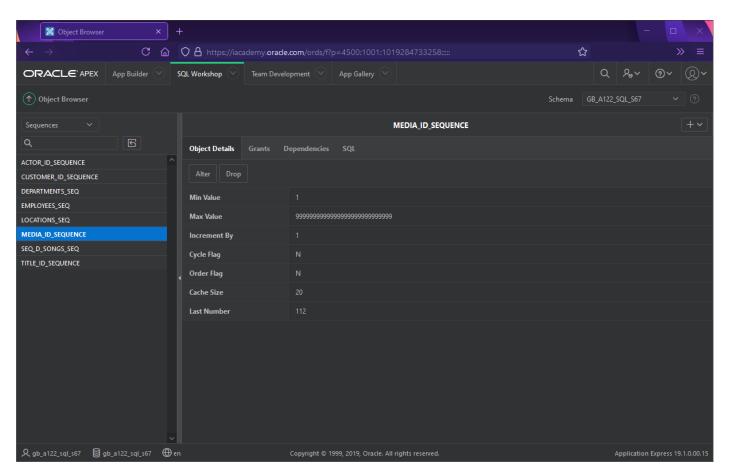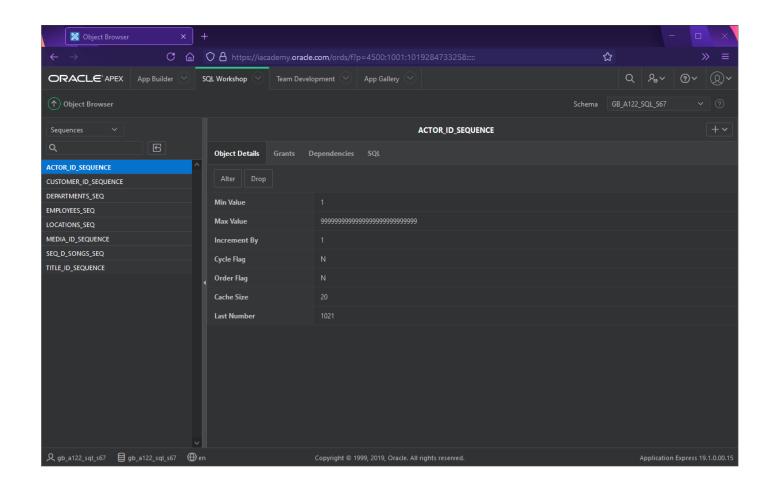
Section 4: Working with Sequences (Indexes and Synonyms)

```
1   create sequence customer_id_sequence start with 101;
2   create sequence title_id_sequence start with 1;
3   create sequence media_id_sequence start with 92;
4   create sequence actor_id_sequence start with 1001;
```

TITLE_ID_SEQUENCE

Object Details Grants Dependencies SQL

Alter Drop

Min Value	1
Max Value	9999999999999999999999999999
Increment By	1
Cycle Flag	N
Order Flag	N
Cache Size	20
Last Number	21

MEDIA_ID_SEQUENCE

Object Details Grants Dependencies SQL

Alter Drop

Min Value	1
Max Value	9999999999999999999999999999
Increment By	1
Cycle Flag	N
Order Flag	N
Cache Size	20
Last Number	112

← → C ⌂ ○ 🔒 https://iacademy.oracle.com/ords/f?p=4500:1001:1019284733258:::::

ORACLE APEX App Builder ⌄ SQL Workshop ⌄ Team Development ⌄ App Gallery ⌄

↑ Object Browser

Schema GB_A122_SQL_S67 ⌄ ?

Sequences ⌄

🔍

| ACTOR_ID_SEQUENCE |
| CUSTOMER_ID_SEQUENCE |
| DEPARTMENTS_SEQ |
| EMPLOYEES_SEQ |
| LOCATIONS_SEQ |
| MEDIA_ID_SEQUENCE |
| SEQ_D_SONGS_SEQ |
| TITLE_ID_SEQUENCE |

ACTOR_ID_SEQUENCE + ⌄

Object Details Grants Dependencies SQL

Alter Drop

Min Value	1
Max Value	999999999999999999999999999
Increment By	1
Cycle Flag	N
Order Flag	N
Cache Size	20
Last Number	1021

👤 gb_a122_sql_s67 🗄 gb_a122_sql_s67 🌐 en

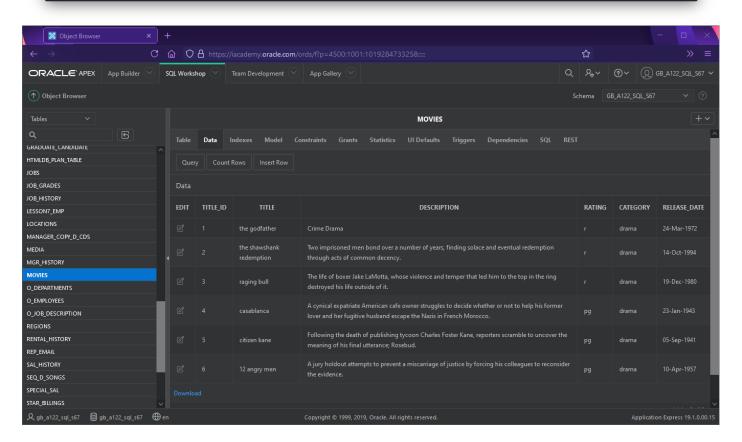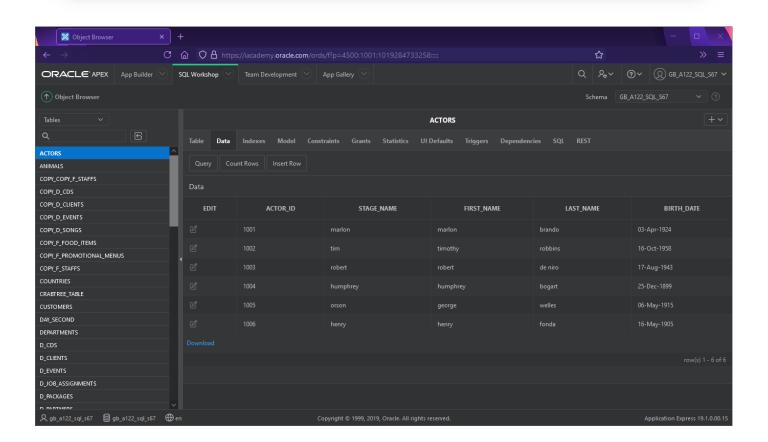Application Express 19.1.0.00.15

Section 5: Populating tables with data

```
1   insert into movies(title_id, title, description, rating, category, release_date)
2   values(title_id_sequence.nextval, 'the godfather', 'Crime Drama', 'r', 'drama', to_date('24 march 1972', 'DD Month YYYY'));
3
4   insert into movies(title_id, title, description, rating, category, release_date)
5   values(title_id_sequence.nextval, 'the shawshank redemption', 'Two imprisoned men bond over a number of years, finding solace an
    d eventual redemption through acts of common decency. ', 'r', 'drama', to_date('14 october 1994', 'DD Month YYYY'));
6
7   insert into movies(title_id, title, description, rating, category, release_date)
8   values(title_id_sequence.nextval, 'raging bull', 'The life of boxer Jake LaMotta, whose violence and temper that led him to th
    e top in the ring destroyed his life outside of it.', 'r', 'drama', to_date('19 december 1980', 'DD Month YYYY'));
9
10  insert into movies(title_id, title, description, rating, category, release_date)
11  values(title_id_sequence.nextval, 'casablanca', 'A cynical expatriate American cafe owner struggles to decide whether or not t
    o help his former lover and her fugitive husband escape the Nazis in French Morocco.', 'pg', 'drama', to_date('23 january 1943'
    , 'DD Month YYYY'));
12
13  insert into movies(title_id, title, description, rating, category, release_date)
14  values(title_id_sequence.nextval, 'citizen kane', 'Following the death of publishing tycoon Charles Foster Kane, reporters scram
    ble to uncover the meaning of his final utterance; Rosebud.', 'pg', 'drama', to_date('5 september 1941', 'DD Month YYYY'));
15
16  insert into movies(title_id, title, description, rating, category, release_date)
17  values(title_id_sequence.nextval, '12 angry men', 'A jury holdout attempts to prevent a miscarriage of justice by forcing his co
    lleagues to reconsider the evidence.', 'pg', 'drama', to_date('10 april 1957', 'DD Month YYYY'));
```

```
1    insert into actors(actor_id, stage_name, first_name, last_name, birth_date)
2    values(actor_id_sequence.nextval, 'marlon', 'marlon', 'brando', to_date('3 april 1924','D
     D Month YYYY'));
3
4    insert into actors(actor_id, stage_name, first_name, last_name, birth_date)
5    values(actor_id_sequence.nextval, 'tim', 'timothy', 'robbins', to_date('16 October 1958','D
     D Month YYYY'));
6
7    insert into actors(actor_id, stage_name, first_name, last_name, birth_date)
8    values(actor_id_sequence.nextval, 'robert', 'robert', 'de niro', to_date('17 august 1943',
     'DD Month YYYY'));
9
10   insert into actors(actor_id, stage_name, first_name, last_name, birth_date)
11   values(actor_id_sequence.nextval, 'humphrey', 'humphrey', 'bogart', to_date('25 december 18
     99','DD Month YYYY'));
12
13   insert into actors(actor_id, stage_name, first_name, last_name, birth_date)
14   values(actor_id_sequence.nextval, 'orson', 'george', 'welles', to_date('6 may 1915','DD Mon
     th YYYY'));
15
16   insert into actors(actor_id, stage_name, first_name, last_name, birth_date)
17   values(actor_id_sequence.nextval, 'henry', 'henry', 'fonda', to_date('16 may 1905','DD Mont
     h YYYY'));
```


ORACLE APEX   App Builder ⌄   SQL Workshop ⌄   Team Development ⌄   App Gallery ⌄

Object Browser

Schema   GB_A122_SQL_S67

Tables

ACTORS
ANIMALS
COPY_COPY_F_STAFFS
COPY_D_CDS
COPY_D_CLIENTS
COPY_D_EVENTS
COPY_D_SONGS
COPY_F_FOOD_ITEMS
COPY_F_PROMOTIONAL_MENUS
COPY_F_STAFFS
COUNTRIES
CRABTREE_TABLE
CUSTOMERS
DAY_SECOND
DEPARTMENTS
D_CDS
D_CLIENTS
D_EVENTS
D_JOB_ASSIGNMENTS
D_PACKAGES
D_PARTNERS

ACTORS

Table | Data | Indexes | Model | Constraints | Grants | Statistics | UI Defaults | Triggers | Dependencies | SQL | REST

Query | Count Rows | Insert Row

Data

EDIT	ACTOR_ID	STAGE_NAME	FIRST_NAME	LAST_NAME	BIRTH_DATE
✎	1001	marlon	marlon	brando	03-Apr-1924
✎	1002	tim	timothy	robbins	16-Oct-1958
✎	1003	robert	robert	de niro	17-Aug-1943
✎	1004	humphrey	humphrey	bogart	25-Dec-1899
✎	1005	orson	george	welles	06-May-1915
✎	1006	henry	henry	fonda	16-May-1905

Download

row(s) 1 - 6 of 6

Application Express 19.1.0.00.15

```sql
1   insert into star_billings(actor_id, title_id, comments)
2   values(1001, 1, 'Vito Corleone is a mafia boss');
3
4   insert into star_billings(actor_id, title_id, comments)
5   values(1002, 2, 'sentenced to two life sentences')
6
7   insert into star_billings(actor_id, title_id, comments)
8   values(1003, 3, 'Jake LaMotta was an American boxer')
9
10  insert into star_billings(actor_id, title_id, comments)
11  values(1004, 4, 'Rick Blaine owns a club in Casablanca')
12
13  insert into star_billings(actor_id, title_id, comments)
14  values(1005, 5, 'Charles Kanes last word was "Rosebud"')
15
16  insert into star_billings(actor_id, title_id, comments)
17  values(1006, 6, 'Juror 8, justice-seeking architect')
```
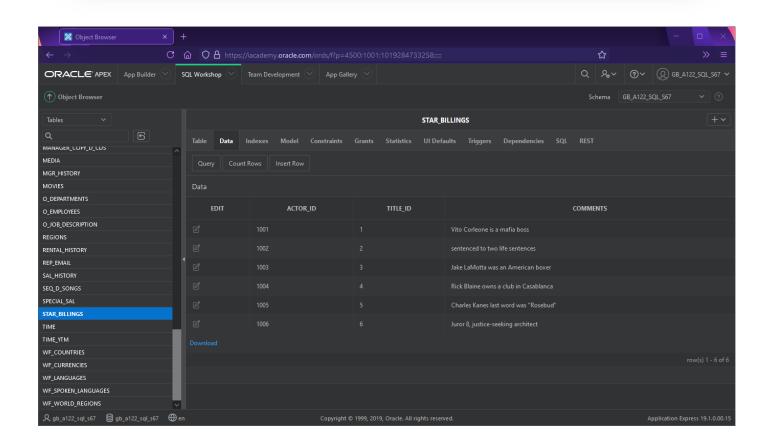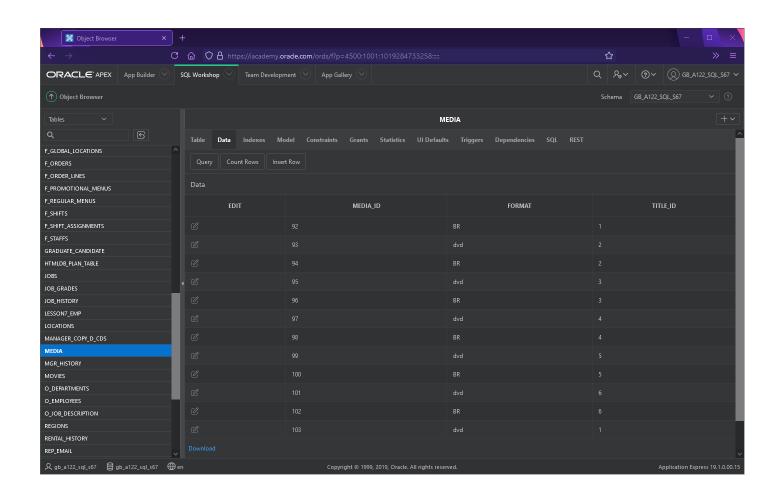

ORACLE APEX   App Builder   SQL Workshop   Team Development   App Gallery   GB_A122_SQL_S67

Object Browser   Schema   GB_A122_SQL_S67

Tables

MANAGER_COPY_D_CDS
MEDIA
MGR_HISTORY
MOVIES
O_DEPARTMENTS
O_EMPLOYEES
O_JOB_DESCRIPTION
REGIONS
RENTAL_HISTORY
REP_EMAIL
SAL_HISTORY
SEQ_D_SONGS
SPECIAL_SAL
STAR_BILLINGS
TIME
TIME_YTM
WF_COUNTRIES
WF_CURRENCIES
WF_LANGUAGES
WF_SPOKEN_LANGUAGES
WF_WORLD_REGIONS

STAR_BILLINGS

Table   Data   Indexes   Model   Constraints   Grants   Statistics   UI Defaults   Triggers   Dependencies   SQL   REST

Query   Count Rows   Insert Row

Data

EDIT	ACTOR_ID	TITLE_ID	COMMENTS
	1001	1	Vito Corleone is a mafia boss
	1002	2	sentenced to two life sentences
	1003	3	Jake LaMotta was an American boxer
	1004	4	Rick Blaine owns a club in Casablanca
	1005	5	Charles Kanes last word was "Rosebud"
	1006	6	Juror 8, justice-seeking architect

Download

row(s) 1 - 6 of 6

gb_a122_sql_s67   gb_a122_sql_s67   en

```sql
insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'dvd',1);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'BR',1);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'dvd',2);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'BR',2);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'dvd',3);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'BR',3);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'dvd',4);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'BR',4);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'dvd',5);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'BR',5);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'dvd',6);

insert into media(media_id, format , title_id)
values(media_id_sequence.nextval,'BR',6);
```

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ORACLE APEX   App Builder   SQL Workshop   Team Development   App Gallery   GB_A122_SQL_S67

Object Browser

Schema   GB_A122_SQL_S67

Tables

F_GLOBAL_LOCATIONS	
F_ORDERS	
F_ORDER_LINES	
F_PROMOTIONAL_MENUS	
F_REGULAR_MENUS	
F_SHIFTS	
F_SHIFT_ASSIGNMENTS	
F_STAFFS	
GRADUATE_CANDIDATE	
HTMLDB_PLAN_TABLE	
JOBS	
JOB_GRADES	
JOB_HISTORY	
LESSON7_EMP	
LOCATIONS	
MANAGER_COPY_D_CDS	
MEDIA	
MGR_HISTORY	
MOVIES	
O_DEPARTMENTS	
O_EMPLOYEES	
O_JOB_DESCRIPTION	
REGIONS	
RENTAL_HISTORY	
REP_EMAIL	

MEDIA

Table   Data   Indexes   Model   Constraints   Grants   Statistics   UI Defaults   Triggers   Dependencies   SQL   REST

Query   Count Rows   Insert Row

Data

EDIT	MEDIA_ID	FORMAT	TITLE_ID
	92	BR	1
	93	dvd	2
	94	BR	2
	95	dvd	3
	96	BR	3
	97	dvd	4
	98	BR	4
	99	dvd	5
	100	BR	5
	101	dvd	6
	102	BR	6
	103	dvd	1

Download

```sql
1   insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
2   values(customer_id_sequence.nextval,'jack', 'alan', '01415689854', '12 coulter avenue', 'glasgow', 'uk', 'alan@email.com', '07458985621');
3
4   insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
5   values(customer_id_sequence.nextval,'fee', 'helen', '01415325689', '32 darmuir crescent', 'glasgow', 'uk', 'helen@email.com', '07458985621');
6
7   insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
8   values(customer_id_sequence.nextval,'crabtree', 'matthew', '01412547895', '176 allison street', 'glasgow', 'uk', 'matt@email.com', '07584896523');
9
10  insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
11  values(customer_id_sequence.nextval,'patrick', 'michael', '01415248978', '65 thompson road', 'glasgow', 'uk', 'michael@email.com', '074584521698');
12
13  insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
14  values(customer_id_sequence.nextval,'james', 'robert', '01415489542', '76 timpson avenue', 'glasgow', 'uk', 'robert@email.com', '07457895123');
15
16  insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
17  values(customer_id_sequence.nextval,'peterson', 'chris', '01415490541', '84 honeycomb mews', 'glasgow', 'uk', 'chris@email.com', '07457974068');
18
19  insert into customers(customer_id, last_name, first_name, home_phone, address, city, state, email, cell_phone)
20  values(customer_id_sequence.nextval,'michaels', 'janet', '01415491540', '85 juniper place', 'glasgow', 'uk', 'janet@email.com', '07458053013');
```
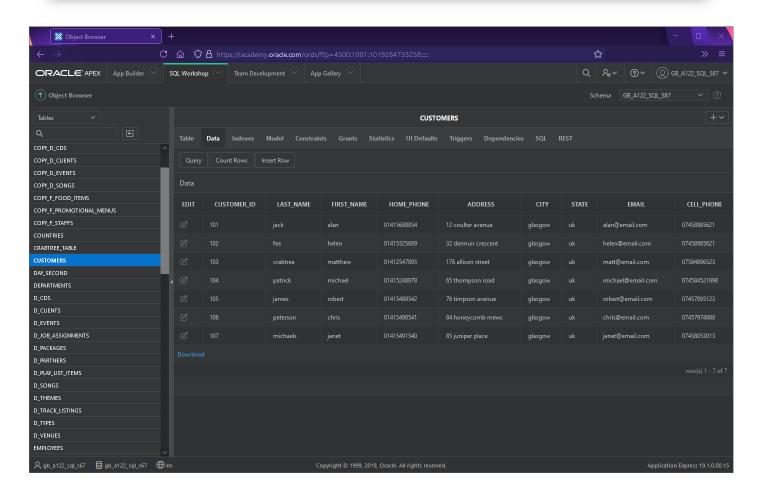
Object Browser

ORACLE APEX   App Builder   SQL Workshop   Team Development   App Gallery   GB_A122_SQL_S67

Object Browser   Schema   GB_A122_SQL_S67

Tables

COPY_D_CDS
COPY_D_CLIENTS
COPY_D_EVENTS
COPY_D_SONGS
COPY_F_FOOD_ITEMS
COPY_F_PROMOTIONAL_MENUS
COPY_F_STAFFS
COUNTRIES
CRABTREE_TABLE
CUSTOMERS
DAY_SECOND
DEPARTMENTS
D_CDS
D_CLIENTS
D_EVENTS
D_JOB_ASSIGNMENTS
D_PACKAGES
D_PARTNERS
D_PLAY_LIST_ITEMS
D_SONGS
D_THEMES
D_TRACK_LISTINGS
D_TYPES
D_VENUES
EMPLOYEES

CUSTOMERS

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST

Query   Count Rows   Insert Row

Data

EDIT	CUSTOMER_ID	LAST_NAME	FIRST_NAME	HOME_PHONE	ADDRESS	CITY	STATE	EMAIL	CELL_PHONE
	101	jack	alan	01415689854	12 coulter avenue	glasgow	uk	alan@email.com	07458985621
	102	fee	helen	01415325689	32 darmuir crescent	glasgow	uk	helen@email.com	07458985621
	103	crabtree	matthew	01412547895	176 allison street	glasgow	uk	matt@email.com	07584896523
	104	patrick	michael	01415248978	65 thompson road	glasgow	uk	michael@email.com	074584521698
	105	james	robert	01415489542	76 timpson avenue	glasgow	uk	robert@email.com	07457895123
	106	peterson	chris	01415490541	84 honeycomb mews	glasgow	uk	chris@email.com	07457974068
	107	michaels	janet	01415491540	85 juniper place	glasgow	uk	janet@email.com	07458053013

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gb_a122_sql_s67   gb_a122_sql_s67   en

Application Express 19.1.0.00.15

```sql
insert into rental_history(media_id, rental_date, customer_id, return_date)
values(94, to_date('18 august 2020', 'DD Month YYYY'), 101, to_date('22 august 2020', 'DD Month YYYY'));

insert into rental_history(media_id, rental_date, customer_id, return_date)
values(95, to_date('19 august 2020', 'DD Month YYYY'), 102, to_date('23 august 2020', 'DD Month YYYY'));

insert into rental_history(media_id, rental_date, customer_id, return_date)
values(96, to_date('20 august 2020', 'DD Month YYYY'), 103, to_date('24 august 2020', 'DD Month YYYY'));

insert into rental_history(media_id, rental_date, customer_id, return_date)
values(97, to_date('21 august 2020', 'DD Month YYYY'), 104, to_date('25 august 2020', 'DD Month YYYY'));

insert into rental_history(media_id, rental_date, customer_id, return_date)
values(98, to_date('22 august 2020', 'DD Month YYYY'), 105, to_date('26 august 2020', 'DD Month YYYY'));

insert into rental_history(media_id, rental_date, customer_id, return_date)
values(99, to_date('23 august 2020', 'DD Month YYYY'), 106, to_date('27 august 2020', 'DD Month YYYY'));
```
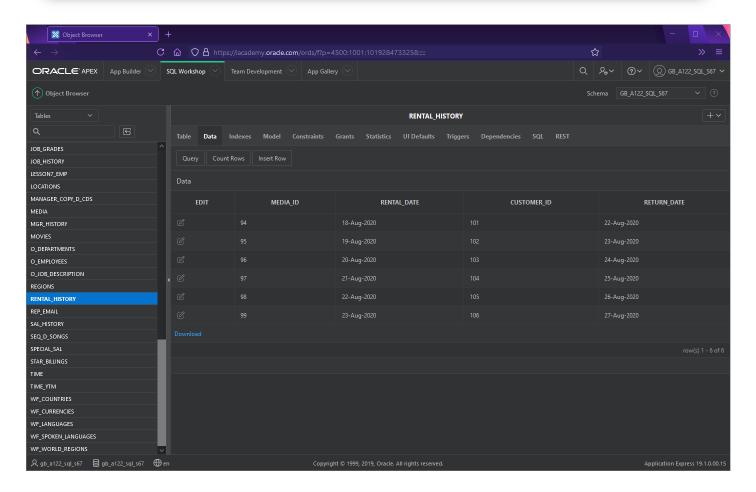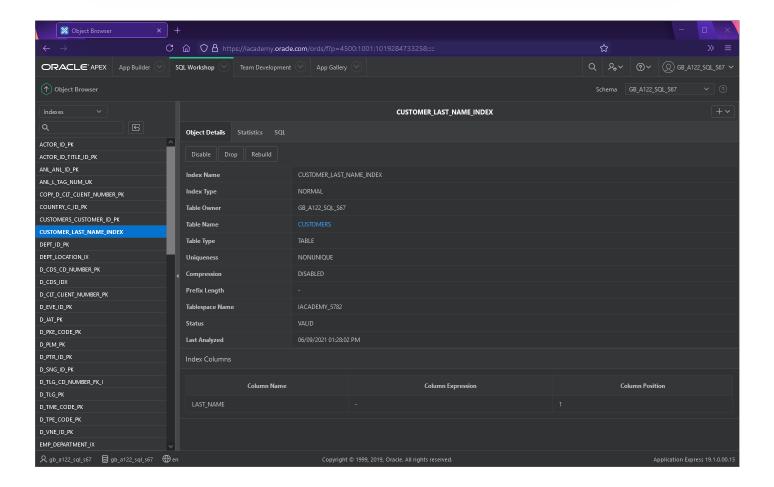
ORACLE APEX App Builder SQL Workshop Team Development App Gallery GB_A122_SQL_S67

Object Browser

Schema GB_A122_SQL_S67

Tables

JOB_GRADES
JOB_HISTORY
LESSON7_EMP
LOCATIONS
MANAGER_COPY_D_CDS
MEDIA
MGR_HISTORY
MOVIES
O_DEPARTMENTS
O_EMPLOYEES
O_JOB_DESCRIPTION
REGIONS
RENTAL_HISTORY
REP_EMAIL
SAL_HISTORY
SEQ_D_SONGS
SPECIAL_SAL
STAR_BILLINGS
TIME
TIME_YTM
WF_COUNTRIES
WF_CURRENCIES
WF_LANGUAGES
WF_SPOKEN_LANGUAGES
WF_WORLD_REGIONS

RENTAL_HISTORY

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST

Query Count Rows Insert Row

Data

EDIT	MEDIA_ID	RENTAL_DATE	CUSTOMER_ID	RETURN_DATE
	94	18-Aug-2020	101	22-Aug-2020
	95	19-Aug-2020	102	23-Aug-2020
	96	20-Aug-2020	103	24-Aug-2020
	97	21-Aug-2020	104	25-Aug-2020
	98	22-Aug-2020	105	26-Aug-2020
	99	23-Aug-2020	106	27-Aug-2020

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Section 6: Index creation

```
1  create index customer_last_name_index
2  on customers(last_name);
```

Section 7: Synonym creation

```
1    create synonym tu for title_unavail;
```