

# **GigSearch™**

## **Venue & Band Matchmaker**

Kiernan van Doorn, David Burke, Ryan Castro, Jacob Arno

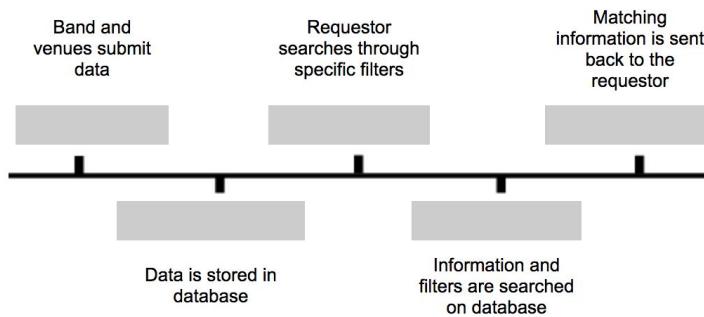
## 1. Project Description

Our group proposes to create a website platform (**GIGSEARCH™**) that will allow venues to submit scheduling, contract rate, and additional information to a database. This database will be able to be filtered and searched by talent such as bands that are looking for venues at which to perform.

### 1.1. Description of Business Need

- There is a current lack of efficiency and communication between talent and venues.
- This lack of efficiency leads to schedule conflicts, delayed contracts, loss of revenues.
- what business processes will be impacted?
- identify the gaps that will be filled by our solution?
- qualitative and quantitative variables.

### 1.2. Primary Business Process for Data Communications

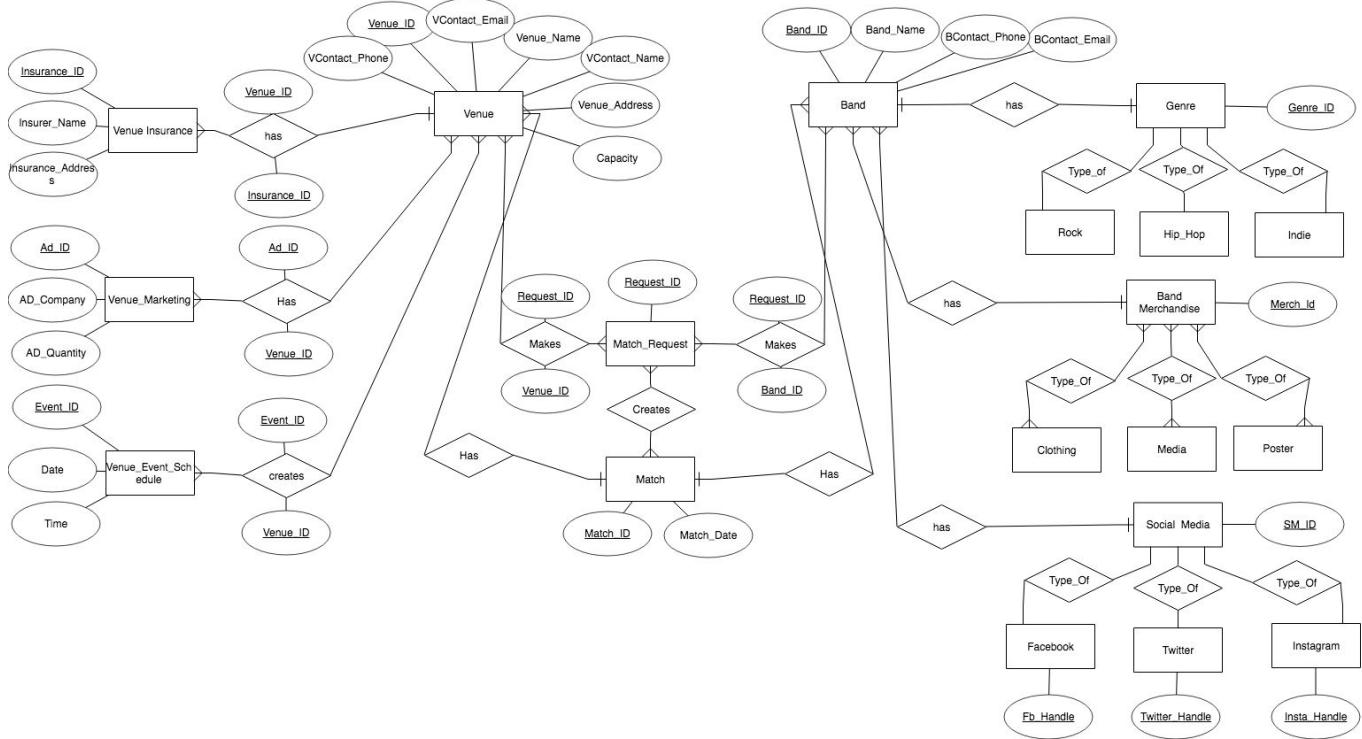


### 1.3. Project Goals, Strategies, and Deliverables

- Provide an efficient platform for venues and talent to connect
- Provide transparency to the process of booking talent
- Provide an efficient platform to match venue schedules with talent schedules
- GigSearch will be like a dating app for talent and venues to connect.
- Website where venues and bands can submit information
- Matches venues and bands through the schedules and filters in the database
- Given contact information and information about one another through the website

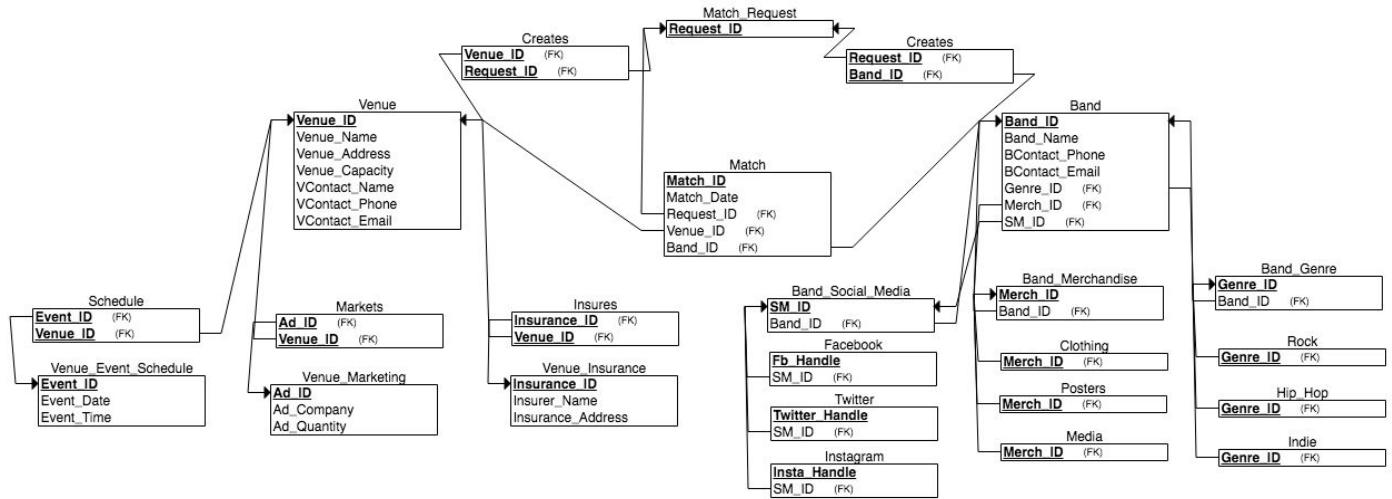
## 2. Enhanced Entity Relationship Diagram

Shown below is our EERD displaying the different attributes and connections of GigSearch™.



### 3. Relations in 3rd Normal Form

In this diagram we created, we took our EERD and converted it to 3rd normal form, where there are no transitive dependencies.



## 4. SQL Screenshots

Shown below is our SQL code we created throughout our project. We stored our tables and data on Oracle Apex.

### a. Create Tables

The screenshot shows the Oracle APEX SQL Workshop interface. The schema is set to 'CASTROWORKS'. The SQL command window contains the following code:

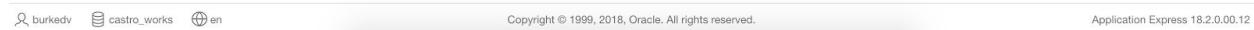
```
CREATE TABLE "BANDS"
(
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_NAME" VARCHAR2(20),
    "BAND_PHONE" NUMBER(10,0),
    "BAND_EMAIL" VARCHAR2(20),
    "GENRE_ID" NUMBER(10,0) NOT NULL ENABLE,
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    "SM_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "BAND_PK" PRIMARY KEY ("BAND_ID")
)
/
```

The results pane shows the message "Table created." and a execution time of "0.06 seconds".

The screenshot shows the Oracle APEX SQL Workshop interface. The schema is set to 'CASTROWORKS'. The SQL command window contains the following code:

```
CREATE TABLE "BAND_Genre"
(
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    "GENRE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "GENRE_PK" PRIMARY KEY ("GENRE_ID")
)
/
ALTER TABLE "BAND_Genre" ADD CONSTRAINT "BAND_GENRE_FK" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
```

The results pane shows the message "Table created." and a execution time of "0.06 seconds".



ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS Rows 10 Save Run

SQL Commands

```
CREATE TABLE "BAND_MATCH"
(
    "REQUEST_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "BAND_MATCH_PK" PRIMARY KEY ("BAND_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_MATCH" ADD CONSTRAINT "BAND_MATCH_FK" FOREIGN KEY ("REQUEST_ID")
    REFERENCES "MATCH_REQUEST" ("REQUEST_ID") ENABLE
/
ALTER TABLE "BAND_MATCH" ADD CONSTRAINT "BAND_MATCH_PK1" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
|
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS Rows 10 Save Run

SQL Commands

```
CREATE TABLE "BAND_MERCHANDISE"
(
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MERCH_BAND_PK" PRIMARY KEY ("MERCH_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_MERCHANDISE" ADD CONSTRAINT "BAND_MERCHANDISE_FK" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
|
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "INVOICE"
(
    "INV_NUMBER" NUMBER(7,0),
    "INV_DATE" DATE,
    "CUS_NUMBER" NUMBER(6,0),
    CONSTRAINT "INV_PK" PRIMARY KEY ("INV_NUMBER")
    USING INDEX ENABLE
)
/
ALTER TABLE "INVOICE" ADD CONSTRAINT "INV_FK" FOREIGN KEY ("CUS_NUMBER")
    REFERENCES "CUSTOMER" ("CUS_NUM") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

javascript:ob\_PPR\_TAB('#')

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "Indie"
(
    "Genre_ID" NUMBER(10,0) NOT NULL ENABLE
)
/
ALTER TABLE "Indie" ADD CONSTRAINT "INDIE_FK" FOREIGN KEY ("Genre_ID")
    REFERENCES "BAND_Genre" ("GENRE_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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SQL Commands

Schema: CASTROWORKS

Rows: 10 | Clear Command | Find Tables | Save | Run

```

CREATE TABLE "LOCATION"
(
    "LOCATION_ID" NUMBER(10,0),
    "VENUE_ID" NUMBER(10,0),
    "LOCATION_SIZE" NUMBER(6,0),
    CONSTRAINT "LOCATIONPK" PRIMARY KEY ("LOCATION_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "LOCATION" ADD CONSTRAINT "LOCATIONFK" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE_COMPANY" ("VENUE_ID") ENABLE
/

```

Results | Explain | Describe | Saved SQL | History

Table created.

0.06 seconds

javascript:ob\_PPR\_TAB("#")

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SQL Commands

Schema: CASTROWORKS

Rows: 10 | Clear Command | Find Tables | Save | Run

```

CREATE TABLE "MARKETS"
(
    "AD_ID" NUMBER(10,0) NOT NULL ENABLE,
    "VENUE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MARKETS_VENUE_PK" PRIMARY KEY ("VENUE_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "MARKETS" ADD CONSTRAINT "MARKETS_FK" FOREIGN KEY ("AD_ID")
    REFERENCES "VENUE_MARKETING" ("AD_ID") ENABLE
/
ALTER TABLE "MARKETS" ADD CONSTRAINT "MARKETS_FK2" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
/

```

Results | Explain | Describe | Saved SQL | History

Table created.

0.06 seconds

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SQL Commands

Schema: CASTROWORKS

Rows: 10

Clear Command Find Tables

```
CREATE TABLE "MATCH"
(
    "MATCH_ID" NUMBER(*,0),
    "MATCH_DATE" DATE,
    PRIMARY KEY ("MATCH_ID")
USING INDEX ENABLE
)
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery

SQL Commands Schema: CASTROWORKS

Rows: 10 Clear Command Find Tables

```
CREATE TABLE "MATCH_REQUEST"
(
    "REQUEST_ID" NUMBER(*,0),
    PRIMARY KEY ("REQUEST_ID")
USING INDEX ENABLE
)
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code entered is:

```
CREATE TABLE "MEDIA"
(
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MERCH_PK" PRIMARY KEY ("MERCH_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "MEDIA" ADD CONSTRAINT "MEDIA_FK" FOREIGN KEY ("MERCH_ID")
    REFERENCES "BAND_MERCHANDISE" ("MERCH_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code entered is:

```
CREATE TABLE "POSTERS"
(
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MERCH_POSTERS_PK" PRIMARY KEY ("MERCH_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "POSTERS" ADD CONSTRAINT "POSTERS_FK" FOREIGN KEY ("MERCH_ID")
    REFERENCES "BAND_MERCHANDISE" ("MERCH_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "Rock"
(
    "Genre_ID" NUMBER(10,0) NOT NULL ENABLE
)
/
ALTER TABLE "Rock" ADD CONSTRAINT "ROCK_FK" FOREIGN KEY ("Genre_ID")
    REFERENCES "BAND_Genre" ("GENRE_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "SCHEDULE"
(
    "EVENT_ID" NUMBER(10,0) NOT NULL ENABLE,
    "VENUE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "Schedules_PK" PRIMARY KEY ("EVENT_ID")
    USING INDEX ENABLE,
    CONSTRAINT "Schedules_UK" UNIQUE ("EVENT_ID", "VENUE_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "SCHEDULE" ADD CONSTRAINT "SCHEDULE_CON" FOREIGN KEY ("EVENT_ID")
    REFERENCES "VENUE_EVENT_SCHEDULE" ("EVENT_ID") ENABLE
/
ALTER TABLE "SCHEDULE" ADD CONSTRAINT "SCHEDULE_CON2" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "VENDOR"
(
    "V_CODE" NUMBER(6,0),
    "V_NAME" VARCHAR2(15),
    "V_CONTACT" NUMBER(1,0),
    "V_AREACODE" NUMBER(3,0),
    "V_PHONE" NUMBER(7,0),
    "V_STATE" VARCHAR2(2),
    "V_ORDER" NUMBER(6,0),
    CONSTRAINT "CHECK_STATE" CHECK (regexp_like (V_STATE,'^[:alpha:]+$')) ENABLE,
    PRIMARY KEY ("V_CODE")
)
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "VENUE"
(
    "VENUE_ID" NUMBER(10,0),
    "VENUE_NAME" VARCHAR2(20),
    "VENUE_ADDRESS" VARCHAR2(100),
    "CAPACITY" NUMBER(10,0),
    "VCCONTACT_PHONE" NUMBER(10,0),
    "VCCONTACT_EMAIL" VARCHAR2(50),
    "VCCONTACT_NAME" VARCHAR2(50),
    PRIMARY KEY ("VENUE_ID")
)
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code input area contains the SQL command to create the VENUE\_COMPANY table:

```
CREATE TABLE "VENUE_COMPANY"
(
    "VENUE_ID" NUMBER(10,0),
    "VENUE_NAME" VARCHAR2(50),
    "VCCONTACT_FNAME" VARCHAR2(20),
    "VCCONTACT_LNAME" VARCHAR2(20),
    "VCCONTACT_PHONE" NUMBER(20,0),
    "VCCONTACT_EMAIL" VARCHAR2(50),
    PRIMARY KEY ("VENUE_ID")
)
USING INDEX ENABLE
/
```

The results panel shows the message "Table created." and a execution time of "0.06 seconds".

The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code input area contains the SQL command to create the VENUE\_EVENT\_SCHEDULE table:

```
CREATE TABLE "VENUE_EVENT_SCHEDULE"
(
    "EVENT_ID" NUMBER(10,0),
    "EVENT_TIME" NUMBER(4,0),
    "EVENT_DATE" DATE,
    PRIMARY KEY ("EVENT_ID")
)
USING INDEX ENABLE,
CONSTRAINT "CHECK_TIME" CHECK (Event_Time > 0 AND Event_Time < 2360) ENABLE
/
```

The results panel shows the message "Table created." and a execution time of "0.06 seconds".

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "VENUE_INSURANCE"
(
    "INSURANCE_ID" NUMBER(*,0),
    "INSURANCE_NAME" VARCHAR2(50),
    "INSURANCE_ADDRESS" VARCHAR2(200),
    PRIMARY KEY ("INSURANCE_ID")
)
USING INDEX ENABLE
/
|
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "VENUE_MARKETING"
(
    "AD_ID" NUMBER(*,0),
    "AD_COMPANY" VARCHAR2(20),
    "AD_QUANT" NUMBER(*,0),
    PRIMARY KEY ("AD_ID")
)
USING INDEX ENABLE
/
|
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS Save Run

SQL Commands

Rows 10 Clear Command Find Tables

```
CREATE TABLE "VENUE_MATCH"
(
    "REQUEST_ID" NUMBER(10,0) NOT NULL ENABLE,
    "VENUE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "VENUE_MATCH_PK" PRIMARY KEY ("VENUE_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "VENUE_MATCH" ADD CONSTRAINT "VENUE_MATCH" FOREIGN KEY ("REQUEST_ID")
    REFERENCES "MATCH_REQUEST" ("REQUEST_ID") ENABLE
/
ALTER TABLE "VENUE_MATCH" ADD CONSTRAINT "VENUE_MATCH_PK1" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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SQL Commands

Schema CASTROWORKS Save Run

Rows 10 Clear Command Find Tables

```
CREATE TABLE "TWITTER"
(
    "TWITTER_HANDLE" VARCHAR2(20),
    "SM_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "TWITTER_PK" PRIMARY KEY ("TWITTER_HANDLE")
    USING INDEX ENABLE
)
/
ALTER TABLE "TWITTER" ADD CONSTRAINT "TWITTER_FK" FOREIGN KEY ("SM_ID")
    REFERENCES "BAND_SOCIAL_MEDIA" ("SM_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for ORACLE APEX, App Builder, SQL Workshop (selected), Team Development, and App Gallery. On the right side of the top bar are search, help, and user profile icons. Below the top bar, the schema is set to CASTROWORKS. The main workspace contains the following SQL code:

```
CREATE TABLE "BANDS"
(
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_NAME" VARCHAR2(20),
    "BAND_PHONE" NUMBER(10,0),
    "BAND_EMAIL" VARCHAR2(20),
    "GENRE_ID" NUMBER(10,0) NOT NULL ENABLE,
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    "SM_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "BAND_PK" PRIMARY KEY ("BAND_ID")
    USING INDEX ENABLE
)
/
```

Below the code, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is selected. The output shows the message "Table created." and a execution time of "0.06 seconds".

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes links for ORACLE APEX, App Builder, SQL Workshop (selected), Team Development, and App Gallery. On the right side of the top bar are search, help, and user profile icons. Below the top bar, the schema is set to CASTROWORKS. The main workspace contains the following SQL code:

```
CREATE TABLE "BAND_Genre"
(
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    "GENRE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "GENRE_PK" PRIMARY KEY ("GENRE_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_Genre" ADD CONSTRAINT "BAND_GENRE_FK" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
```

Below the code, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is selected. The output shows the message "Table created." and a execution time of "0.06 seconds".

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The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code area contains the following SQL:

```
CREATE TABLE "BAND_MATCH"
(
    "REQUEST_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "BAND_MATCH_PK" PRIMARY KEY ("BAND_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_MATCH" ADD CONSTRAINT "BAND_MATCH_FK" FOREIGN KEY ("REQUEST_ID")
    REFERENCES "MATCH_REQUEST" ("REQUEST_ID") ENABLE
/
ALTER TABLE "BAND_MATCH" ADD CONSTRAINT "BAND_MATCH_PK1" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code area contains the following SQL:

```
CREATE TABLE "BAND_MERCHANDISE"
(
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MERCH_BAND_PK" PRIMARY KEY ("MERCH_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_MERCHANDISE" ADD CONSTRAINT "BAND_MERCHANDISE_FK" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code area contains the following SQL:

```
CREATE TABLE "BAND_MERCHANDISE"
(
    "MERCH_ID" NUMBER(10,0) NOT NULL ENABLE,
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MERCH_BAND_PK" PRIMARY KEY ("MERCH_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_MERCHANDISE" ADD CONSTRAINT "BAND_MERCHANDISE_FK" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
```

The screenshot shows the Oracle APEX SQL Workshop interface. The schema is set to CASTROWORKS. The code entered is:

```
CREATE TABLE "BAND_SOCIAL_MEDIA"
(
    "BAND_ID" NUMBER(10,0) NOT NULL ENABLE,
    "SM_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "SM_PK" PRIMARY KEY ("SM_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "BAND_SOCIAL_MEDIA" ADD CONSTRAINT "BAND_SOCIAL_MEDIA_FK" FOREIGN KEY ("BAND_ID")
    REFERENCES "BANDS" ("BAND_ID") ENABLE
/
```

The results pane shows the message "Table created." and a execution time of "0.06 seconds".

The screenshot shows the Oracle APEX SQL Workshop interface. The schema is set to CASTROWORKS. The code entered is:

```
CREATE TABLE "CLOTHING"
(
    "MERC_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MERCH_CLOTHING_PK" PRIMARY KEY ("MERC_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "CLOTHING" ADD CONSTRAINT "CLOTHING_FK" FOREIGN KEY ("MERC_ID")
    REFERENCES "BAND_MERCHANDISE" ("MERC_ID") ENABLE
/
```

The results pane shows the message "Table created." and a execution time of "0.06 seconds".

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "CUSTOMER"
(
    "CUS_NUM" NUMBER(6,0),
    "CUS_LNAME" VARCHAR2(15),
    "CUS_FNAME" VARCHAR2(15),
    "CUS_INITIAL" CHAR(3),
    "CUS_AREACODE" NUMBER(3,0),
    "CUS_PHONE" NUMBER(7,0),
    "CUS_BALANCE" NUMBER(7,2),
    PRIMARY KEY ("CUS_NUM")
    USING INDEX ENABLE
)
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "Hip_Hop"
(
    "Genre_ID" NUMBER(10,0) NOT NULL ENABLE
)
/
ALTER TABLE "Hip_Hop" ADD CONSTRAINT "HIP_HOP_CON" FOREIGN KEY ("Genre_ID")
    REFERENCES "BAND_Genre" ("GENRE_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

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The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code area contains the following SQL:

```
CREATE TABLE "FACEBOOK"
(
    "FACEBOOK_HANDLE" VARCHAR2(20),
    "SM_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "FACEBOOK_PK" PRIMARY KEY ("FACEBOOK_HANDLE")
    USING INDEX ENABLE
)
/
ALTER TABLE "FACEBOOK" ADD CONSTRAINT "FACEBOOK_FK" FOREIGN KEY ("SM_ID")
    REFERENCES "BAND_SOCIAL_MEDIA" ("SM_ID") ENABLE
/
```

The results pane shows the message "Table created." and a execution time of "0.06 seconds".

The screenshot shows the Oracle APEX interface with the SQL Workshop tab selected. The schema is set to CASTROWORKS. The code area contains the following SQL:

```
CREATE TABLE "INSTAGRAM"
(
    "INSTA_HANDLE" VARCHAR2(20),
    "SM_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "INSTA_PK" PRIMARY KEY ("INSTA_HANDLE")
    USING INDEX ENABLE
)
/
ALTER TABLE "INSTAGRAM" ADD CONSTRAINT "INSTAGRAM_FK" FOREIGN KEY ("SM_ID")
    REFERENCES "BAND_SOCIAL_MEDIA" ("SM_ID") ENABLE
/
```

The results pane shows the message "Table created." and a execution time of "0.06 seconds".

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Application Express 18.2.0.00.12

ORACLE APEX App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "INSURES"
(
    "INSURANCE_ID" NUMBER(10,0) NOT NULL ENABLE,
    "VENUE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "INSURES_VENUE_PK" PRIMARY KEY ("VENUE_ID")
    USING INDEX ENABLE
)
/
ALTER TABLE "INSURES" ADD CONSTRAINT "INSURES_FK" FOREIGN KEY ("INSURANCE_ID")
    REFERENCES "VENUE_INSURANCE" ("INSURANCE_ID") ENABLE
/
ALTER TABLE "INSURES" ADD CONSTRAINT "INSURES_FK2" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
/
```

Results Explain Describe Saved SQL History

Table created.

0.06 seconds

Bottom Splitter castro\_works en Copyright © 1999, 2018, Oracle. All rights reserved. Application Express 18.2.0.00.12

SQL Commands Schema CASTROWORKS

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE Venue_Event_Schedule
(
Event_ID NUMBER(10) PRIMARY KEY,
Event_Time NUMBER(4),
Event_Date DATE
);
```

!

Results Explain Describe Saved SQL History

Table created.

## SQL Commands

Schema

CASTROWORKS



Rows 10



Clear Command

Find Tables

Save

Run

```
CREATE TABLE Venue_Insurance
(
Insurance_ID INTEGER PRIMARY KEY,
Insurance_Name VARCHAR2(50),
Insurance_Address VARCHAR2(200)
);
```



Results

Explain

Describe

Saved SQL

History

Table created.

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 en

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Application Express 18.2.0.00.12

## SQL Commands

Schema

CASTROWORKS



Rows 10



Clear Command

Find Tables

Save

Run

```
CREATE TABLE Venue_Marketing
(
AD_ID INTEGER PRIMARY KEY,
AD_COMPANY VARCHAR2(20),
AD_Quant SMALLINT
);
```



Results

Explain

Describe

Saved SQL

History

Table created.

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en

castro\_works

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## SQL Commands

Schema

CASTROWORKS



Rows



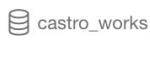
```
CREATE TABLE Match
(
Match_ID INTEGER PRIMARY KEY,
Match_Date DATE
);
```



Table created.



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en



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Application Express 18.2.0.00.12

## SQL Commands

Schema

CASTROWORKS



Rows 10



Clear Command

Find Tables

Save

Run

```
CREATE TABLE Match_Request
(
Request_ID INTEGER PRIMARY KEY
);
```



Results

Explain

Describe

Saved SQL

History

Table created.

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en

castro\_works

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## SQL Commands

Schema

CASTROWORKS

Rows 10



Clear Command

Find Tables

Save

Run

```
CREATE TABLE Band
(
Band_ID INTEGER PRIMARY KEY,
Band_Name VARCHAR2(20),
BContact_Phone NUMBER(10),
BContact_Email VARCHAR2(50)
);
```



Results

Explain

Describe

Saved SQL

History

Table created.

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en

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ORACLE

App Builder SQL Workshop Team Development App Gallery

SQL Commands Schema CASTROWORKS

Rows 10 Clear Command Find Tables Save Run

```
CREATE TABLE "Schedules"
(
    "Event_ID" NUMBER(10) NOT NULL ENABLE,
    "Venue_ID" NUMBER(10) NOT NULL ENABLE,
    CONSTRAINT "Schedules_PK" PRIMARY KEY ("Event_ID")
USING INDEX ENABLE,
    CONSTRAINT "Schedules_UK" UNIQUE ("Event_ID", "Venue_ID")
USING INDEX ENABLE
);
```

!

Results Explain Describe Saved SQL History

Table created.

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## SQL Commands

Schema

CASTROWORKS



Rows

10



Clear Command

Find Tables

Save

Run

```
CREATE TABLE BAND_MATCH
(
"REQUEST_ID" NUMBER(10) NOT NULL ENABLE,
"VENUE_ID" NUMBER(10) NOT NULL ENABLE,
CONSTRAINT "BAND_MATCH_PK" PRIMARY KEY("VENUE_ID")
);
```



Results

Explain

Describe

Saved SQL

History

Table created.

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en

castro\_works

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Application Express 18.2.0.00.12

```
CREATE TABLE "MARKET"
(
    "AD_ID" NUMBER(10,0) NOT NULL ENABLE,
    "VENUE_ID" NUMBER(10,0) NOT NULL ENABLE,
    CONSTRAINT "MARKET_PK" PRIMARY KEY ("AD_ID")
    USING INDEX ENABLE,
    CONSTRAINT "MARKET_UK" UNIQUE ("AD_ID", "VENUE_ID")
    USING INDEX ENABLE
);

ALTER TABLE "MARKET" ADD CONSTRAINT "MARKET_CON" FOREIGN KEY ("AD_ID")
    REFERENCES "VENUE_MARKETING" ("AD_ID") ENABLE

ALTER TABLE "MARKET" ADD CONSTRAINT "MARKET_CON2" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
```



Results

Explain

Describe

Saved SQL

History

Table created.

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en

castro\_works

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Application Express 18.2.0.00.12

## b. Alter Tables

The screenshot shows the Oracle SQL Workshop interface. In the top navigation bar, the 'SQL Workshop' tab is selected. Below it, the 'SQL Commands' section contains the following SQL command:

```
ALTER TABLE "MATCH" ADD CONSTRAINT "MATCH_FK1"
FOREIGN KEY("REQUEST_ID")
REFERENCES "MATCH_REQUEST"("REQUEST_ID");
```

Below the command, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected.

Table altered.

0.06 seconds

The screenshot shows the Oracle SQL Workshop interface. In the top navigation bar, the 'SQL Workshop' tab is selected. Below it, the 'SQL Commands' section contains the following SQL command:

```
ALTER TABLE "MATCH" ADD CONSTRAINT "MATCH_FK2"
FOREIGN KEY("VENUE_ID")
REFERENCES "VENUE"("VENUE_ID");
```

Below the command, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected.

Table altered.

0.06 seconds

castroj@vcu.edu castro\_works en



SQL Commands

Rows 10 Clear Command

```
ALTER TABLE "MATCH" ADD CONSTRAINT "MATCH_FK3"
FOREIGN KEY("BAND_ID")
REFERENCES "BANDS"("BAND_ID");
```

Results Explain Describe Saved SQL History

Table altered.

0.03 seconds

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SQL Commands

Schema

CASTROWORKS

Rows 10

Clear Command

Find Tables

Save

Run

```
ALTER TABLE Venue_Event_Schedule
ADD CONSTRAINT Check_Time CHECK(Event_Time > 0 AND Event_Time < 2360);
```



Results Explain Describe Saved SQL History

Table altered.

SQL Commands Schema CASTROWORKS ?

Rows 10 Clear Command Find Tables Save Run

```
ALTER TABLE "VENUE_MATCH" ADD CONSTRAINT "VENUE_MATCH"
FOREIGN KEY("REQUEST_ID")
REFERENCES "MATCH_REQUEST"("REQUEST_ID");
```

!

Results Explain Describe Saved SQL History

Table altered.

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SQL Commands Schema CASTROWORKS ?

Rows 10 Clear Command Find Tables Save Run

```
ALTER TABLE "BAND_MATCH" ADD CONSTRAINT "BAND_MATCH"
FOREIGN KEY("REQUEST_ID")
REFERENCES "MATCH_REQUEST"("REQUEST_ID");
```

!

Results Explain Describe Saved SQL History

Table altered.

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## Add Column

The screenshot shows the Oracle SQL Workshop interface. At the top, there are tabs for 'App Builder' and 'SQL Workshop' (which is selected), and 'Team Develop'. Below the tabs is a toolbar with a green circular icon containing an upward arrow, labeled 'SQL Commands'. To its right are buttons for 'Rows' (set to 10), 'Clear Command', and 'Find Tables'. The main area contains the SQL command: 'ALTER TABLE "MATCH" ADD "VENUE\_ID" NUMBER;'. Below the command is a results panel with tabs for 'Results' (selected), 'Explain', 'Describe', 'Saved SQL', and 'History'. The status bar at the bottom shows the user's email (castrorj@vcu.edu), the connection name (castro\_works), and the language (en).

```
ALTER TABLE "MATCH" ADD "VENUE_ID" NUMBER;
```

Table altered.

0.06 seconds

ORACLE App Builder SQL Workshop

SQL Commands

Rows 10 Clear Command

```
ALTER TABLE "MATCH" ADD "BAND_ID" NUMBER;
```

Results Explain Describe Saved SQL History

Table altered.

0.06 seconds

castrorj@vcu.edu castro\_works en Cc

SQL Commands

Rows 10 Clear Command

```
ALTER TABLE "MATCH" ADD "REQUEST_ID" NUMBER;
```

Results Explain Describe Saved SQL History

Table altered.

0.09 seconds

castrorj@vcu.edu castro\_works en Cop

ORACLE

App Builder SQL Workshop Team Development App Gallery

SQL Commands Schema CASTROWORKS

Rows 10 Clear Command Find Tables Save Run

```
ALTER TABLE "MARKET" ADD CONSTRAINT "MARKET_CON" FOREIGN KEY ("AD_ID")
    REFERENCES "VENUE_MARKETING" ("AD_ID") ENABLE
```

Results Explain Describe Saved SQL History

Table altered.

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App Builder

SQL Workshop

Team Development

App Gallery



SQL Commands

Schema

CASTROWORKS



Rows

10



Clear Command

Find Tables

Save

Run

```
ALTER TABLE "MARKET" ADD CONSTRAINT "MARKET_CON2" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
```



Results

Explain

Describe

Saved SQL

History

Table altered.

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 en

castro\_works

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App Builder

SQL Workshop

Team Development

App Gallery



SQL Commands

Schema

CASTROWORKS



Rows

10



Clear Command

Find Tables

Save

Run

```
ALTER TABLE "MARKET" ADD CONSTRAINT "MARKET_CON2" FOREIGN KEY ("VENUE_ID")
    REFERENCES "VENUE" ("VENUE_ID") ENABLE
```



Results

Explain

Describe

Saved SQL

History

Table altered.

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 en

castro\_works

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### c. Insert into Tables

The screenshot shows the Oracle SQL Workshop interface. At the top, there are tabs for App Builder, SQL Workshop (which is selected), Team Development, and App Gallery. Below the tabs, the schema is set to CASTROWORKS. The main area contains an SQL command window with the following content:

```
INSERT INTO VENUE (VENUE_ID, VENUE_NAME, CAPACITY, VENUE_ADDRESS, VCONTACT_EMAIL, VCONTACT_PHONE, VCONTACT_NAME)
VALUES (1, 'THE NATIONAL', 200, '708 E Broad St Richmond', 'abed@vcu.edu', 5205555555, 'Albert Tunes');
```

Below the command window, there are buttons for Save and Run. The Run button is highlighted in blue. A status message at the bottom left indicates "1 row(s) inserted." The bottom right corner of the main window has a red circle with a white exclamation mark, indicating an error or warning.

At the very bottom of the screen, there are user profile icons and copyright information: "castrorj@vcu.edu", "castro\_works", "en", "Copyright © 1999, 2018, Oracle. All rights reserved.", and "Application Express 18.2.0.0.12".

Rows 10

```
INSERT INTO "BANDS" (BAND_ID, BAND_NAME, BAND_PHONE,BAND_EMAIL,GENRE_ID,MERCH_ID,SM_ID)
VALUES (10102,'Mom Jeans',5040000002,'MomJeans@gmail.com', 2, 2, 2)
```

! Results Explain Describe Saved SQL History

1 row(s) inserted.

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Rows 10

```
INSERT INTO VENUE (VENUE_ID, VENUE_NAME, CAPACITY, VENUE_ADDRESS, VCONTACT_EMAIL, VCONTACT_PHONE, VCONTACT_NAME)
VALUES(3, 'The Broadberry', 150, '2729 W Broad St, Richmond, VA 23220', 'Broadbrry@hotmail.com',2055555557, 'James Monroe');
```

! Results Explain Describe Saved SQL History

1 row(s) inserted.

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Rows

```
INSERT INTO VENUE (VENUE_ID, VENUE_NAME, CAPACITY, VENUE_ADDRESS, VCONTACT_EMAIL, VCONTACT_PHONE, VCONTACT_NAME)
VALUES(4, 'Altria Theater', 250, '6 N Laurel St, Richmond, VA 23220', 'Altria@gmail.com', 2055555558, 'Donald Trump');
```

!

**Results**

1 row(s) inserted.

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SQL Commands Schema CASTROWORKS

Rows

```
INSERT INTO VENUE (VENUE_ID, VENUE_NAME, CAPACITY, VENUE_ADDRESS, VCONTACT_EMAIL, VCONTACT_PHONE, VCONTACT_NAME)
VALUES(5, 'Canal Club', 200, '1545 E Cary St, Richmond, VA 23219', 'CanalC1b@yahoo.com', 2055555559, 'Vladimir Putin');
```

!

**Results**

1 row(s) inserted.

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Application Express 18.2.0.00.12

Rows 10

```
INSERT INTO "BANDS" (BAND_ID, BAND_NAME, BAND_PHONE,BAND_EMAIL,GENRE_ID,MERCH_ID,SM_ID)
VALUES (10104,'Neutral Milk Hotel',8200000004,'NMH@Cox.com',4,4,4)
```



**Results** Explain Describe Saved SQL History

1 row(s) inserted.

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en

castro\_works

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Application Express 18.2.0.00.12

Rows 10

```
INSERT INTO "BANDS" (BAND_ID, BAND_NAME, BAND_PHONE,BAND_EMAIL,GENRE_ID,MERCH_ID,SM_ID)
VALUES (10104,'Neutral Milk Hotel',8200000004,'NMH@Cox.com',4,4,4)
```



**Results** Explain Describe Saved SQL History

1 row(s) inserted.

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en

castro\_works

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Application Express 18.2.0.00.12

Rows 10

```
INSERT INTO "BANDS" (BAND_ID, BAND_NAME, BAND_PHONE,BAND_EMAIL,GENRE_ID,MERCH_ID,SM_ID)
VALUES (10105,'Alvvays',4050000005,'Alvvays@Yahoo.com',5,5,5)
```



**Results** Explain Describe Saved SQL History

1 row(s) inserted.

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 castro\_works

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```
INSERT INTO "BANDS" (BAND_ID, BAND_NAME, BAND_PHONE,BAND_EMAIL,GENRE_ID,MERCH_ID,SM_ID)
VALUES (10103, 'Caamp',757000003,'Caamp@hotmail.com',3,3,3)
```



Results Explain Describe Saved SQL History

1 row(s) inserted.

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en

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ORACLE

App Builder

SQL Workshop

Team

SQL Commands

Rows 10 Clear Command Find

```
INSERT INTO "BAND_SOCIAL_MEDIA" (BAND_ID, SM_ID)
select 10101, 10000001 from dual
union all select 10102, 10000002 from dual
union all select 10103, 10000003 from dual
union all select 10104, 10000004 from dual
union all select 10105, 10000005| from dual;
```

Results Explain Describe Saved SQL History

5 row(s) inserted.

0.11 seconds

## SQL Commands

Rows  

 Clear Command

Find Tables

```
INSERT INTO "BAND_MATCH" ("BAND_ID", "REQUEST_ID")
VALUES (10101, 10101)
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.03 seconds

## SQL Commands

Rows 10 



[Clear Command](#)

[Find Tables](#)

```
INSERT INTO "BAND_MATCH" (BAND_ID, REQUEST_ID)
select 10102, 100002 from dual
union all select 10103, 100003 from dual
union all select 10104, 100004 from dual
union all select 10105, 100005 from dual;
```

[Results](#)

[Explain](#)

[Describe](#)

[Saved SQL](#)

[History](#)

4 row(s) inserted.

0.09 seconds

 castrorj@vcu.edu

 castro\_works

 en

ORACLE

App Builder

SQL Workshop

Tea

SQL Commands

Rows

10



Clear Command

First

```
INSERT INTO "BAND_MERCHANDISE" (BAND_ID, MERCH_ID)
select 10101, 110000001 from dual
union all select 10102, 110000002 from dual
union all select 10103, 110000003 from dual
union all select 10104, 110000004 from dual
union all select 10105, 110000005 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.08 seconds



SQL Commands

Rows 10



Clear Command



```
INSERT INTO "CLOTHING" (MERCHE_ID)
select 1100000001 from dual
union all select 1100000002 from dual
union all select 1100000003 from dual
union all select 1100000004 from dual
union all select 1100000005 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.08 seconds

ORACLE

App Builder

SQL Workshop

Team Development

App Gallery

SQL Commands

Schema

Rows

10



Clear Command

Find Tables

```
INSERT INTO "VENUE_INSURANCE" (INSURANCE_ID, INSURANCE_NAME, INSURANCE_ADDRESS)
select 10000001, 'Liberty Mutual Group', '175 Berkeley St Unit J091 Boston, MA 02116-5066' from dual
union all select 10000002, 'Kinsale Insurance', '2221 Edward Holland Dr #600, Richmond, VA 23230' from dual
union all select 10000003, 'Bailey Insurance Agency', '3407 W Broad St, Richmond, VA 23230' from dual
union all select 10000004, 'Sweeney Insurance Agency', '510 E Belt Blvd, Richmond, VA 23224' from dual
union all select 10000005, 'United Insurance Co', '3600 W Broad St # 166, Richmond, VA 23230' from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.09 seconds

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en

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## SQL Commands

Rows 10

Clear Command

Find Tables

```
INSERT INTO "INSURES" (INSURANCE_ID, VENUE_ID)
select 10000001, 1 from dual
union all select 10000002, 2 from dual
union all select 10000003, 3 from dual
union all select 10000004, 4 from dual
union all select 10000005, 5 from dual;
```

Results Explain Describe Saved SQL History

5 row(s) inserted.

0.07 seconds

ORACLE

App Builder

SQL Workshop

Team Developm

SQL Commands

Rows 10



Clear Command

Find Tables

```
INSERT INTO "MATCH" (MATCH_ID, REQUEST_ID, VENUE_ID, BAND_ID)
select 1000001, 10101, 1, 10101 from dual
union all select 1000002, 100002, 2, 10102 from dual
union all select 1000003, 100003, 3, 10103 from dual
union all select 1000004, 100004, 4, 10104 from dual
union all select 1000005, 100005, 5, 10105 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.03 seconds

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castro\_works

en

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Rows

10



Clear Command

Find Tables

```
INSERT INTO "MATCH_REQUEST"(REQUEST_ID)
VALUES (10101);
```

Results

Explain

Describe

Saved SQL

History

1 row(s) inserted.

0.06 seconds

## SQL Commands

Rows 10



Clear Command

Find Tables

```
INSERT INTO "MATCH" (MATCH_ID)
select 1000001 from dual
union all select 1000002 from dual
union all select 1000003 from dual
union all select 1000004 from dual
union all select 1000005 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.07 seconds

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castro\_works

en

ORACLE

App Builder

SQL Workshop

Team

SQL Commands

Rows

10



Clear Command

Find

```
INSERT INTO "MEDIA" (MERCH_ID)
select 110000001 from dual
union all select 110000002 from dual
union all select 110000003 from dual
union all select 110000004 from dual
union all select 110000005 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.18 seconds



App Builder

SQL Workshop

Team

## SQL Commands

Rows

10



Clear Command

Find

```
INSERT INTO "POSTERS" (MERCH_ID)
select 1100000001 from dual
union all select 1100000002 from dual
union all select 1100000003 from dual
union all select 1100000004 from dual
union all select 1100000005 from dual;
```

[Results](#)[Explain](#)[Describe](#)[Saved SQL](#)[History](#)

5 row(s) inserted.

0.12 seconds

ORACLE

App Builder

SQL Workshop

SQL Commands

Rows

10



Clear Command

```
INSERT INTO "SCHEDULE" (EVENT_ID, VENUE_ID)
select 111111111, 1 from dual
union all select 111111112, 2 from dual
union all select 111111113, 3 from dual
union all select 111111114, 4 from dual
union all select 111111115, 5 |from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.08 seconds

castrorj@vcu.edu

castro\_works

en



App Builder

SQL Workshop

Team Devel



SQL Commands

Rows

10



Clear Command

Find Tables

```
INSERT INTO "TWITTER" (TWITTER_HANDLE, SM_ID)
select 'NIRVANA', 100000001 from dual
union all select 'MOM JEANS', 100000002 from dual
union all select 'CAAMP', 100000003 from dual
union all select 'NEUTRAL MILK HOTEL', 100000004 from dual
union all select 'ALVVAYS', 100000005 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.12 seconds

ORACLE

App Builder

SQL Workshop

Team Develop

SQL Commands

Rows

10



Clear Command

Find Tables

```
INSERT INTO "VENUE_EVENT_SCHEDULE" (EVENT_ID, EVENT_TIME)
select 11111111, 2000 from dual
union all select 11111112, 2100 from dual
union all select 11111113, 2100 from dual
union all select 11111114, 2200 from dual
union all select 11111115, 2130 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.11 seconds

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castro\_works

en

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App Builder

SQL Workshop

Team Development

## SQL Commands

Rows

10



Clear Command

Find Tables

```
INSERT INTO "VENUE_MARKETING" (AD_ID, AD_COMPANY, AD_QUANT)
select 11111111, 'COKE', 25000 from dual
union all select 11111112, 'DOMINOES', 6000 from dual
union all select 11111113, 'TACO BELL', 30000 from dual
union all select 11111114, 'TESLA', 100000 from dual
union all select 11111115, 'ABED CORP', 4200 from dual;
```

Results

Explain

Describe

Saved SQL

History

5 row(s) inserted.

0.10 seconds

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castro\_works

en

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#### d. Select Tables

The screenshot shows two separate sessions in the Oracle SQL Workshop interface.

**Session 1:**

```
SELECT BANDS.BAND_NAME, BAND_MATCH.REQUEST_ID
FROM BANDS
INNER JOIN BAND_MATCH
ON BANDS.BAND_ID = BAND_MATCH.BAND_ID
WHERE BANDS.BAND_ID > 10104;
```

**Session 2:**

```
SELECT BANDS.BAND_NAME, FACEBOOK.FACEBOOK_HANDLE
FROM BANDS
INNER JOIN BAND_SOCIAL_MEDIA
ON BANDS.BAND_ID = BAND_SOCIAL_MEDIA.BAND_ID
INNER JOIN FACEBOOK
ON BAND_SOCIAL_MEDIA.SM_ID = FACEBOOK.SM_ID
WHERE BANDS.BAND_ID > 10104;
```

**Results for Session 1:**

BAND_NAME	REQUEST_ID
Alvvays	100005

1 rows returned in 0.02 seconds      Download

**Results for Session 2:**

BAND_NAME	FACEBOOK_HANDLE
Alvvays	ALVVAYS

1 rows returned in 0.02 seconds      Download

ORACLE App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands Schema CASTROWORKS

Rows 10 Save Run

```
SELECT BANDS.BAND_NAME, POSTERS.MERCH_ID
FROM BANDS
INNER JOIN BAND_MERCHANDISE
ON BANDS.BAND_ID = BAND_MERCHANDISE.BAND_ID
INNER JOIN POSTERS
ON BAND_MERCHANDISE.MERCH_ID = POSTERS.MERCH_ID
WHERE BANDS.BAND_ID < 10105;
```

Results Explain Describe Saved SQL History

BAND_NAME	MERCH_ID
Nirvana	1100000001
Mom Jeans	1100000002
Caamp	1100000003
Neutral Milk Hotel	1100000004

4 rows returned in 0.02 seconds Download

ORACLE App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands Schema CASTROWORKS

Rows 10 Save Run

```
SELECT BANDS.BAND_NAME, MATCH_REQUEST.REQUEST_ID
FROM BANDS
INNER JOIN BAND_MATCH
ON BANDS.BAND_ID = BAND_MATCH.BAND_ID
INNER JOIN MATCH_REQUEST
ON BAND_MATCH.REQUEST_ID = MATCH_REQUEST.REQUEST_ID
WHERE BANDS.BAND_ID > 10103
AND BANDS.BAND_ID < 10105;
```

Results Explain Describe Saved SQL History

BAND_NAME	REQUEST_ID
Neutral Milk Hotel	100004

1 rows returned in 0.05 seconds Download

```
SELECT * FROM "BANDS"
```



Results Explain Describe Saved SQL History

BAND_ID	BAND_NAME	BAND_PHONE	BAND_EMAIL	GENRE_ID	MERCH_ID	SM_ID
10102	Mom Jeans	5040000002	MomJeans@gmail.com	2	2	2
10101	Nirvana	5010000001	Nirvana@Aol.com	1	1	1
10103	Caamp	7570000003	Caamp@hotmail.com	3	3	3
10104	Neutral Milk Hotel	8200000004	NMH@Cox.com	4	4	4
10105	Alvvays	4050000005	Alvvays@yahoo.com	5	5	5

5 rows returned in 0.01 seconds [Download](#)

SQL Commands

Schema CASTROWORKS

Rows

10



Clear Command

Find Tables

Save

Run

```
SELECT * FROM "VENUE"
```



Results Explain Describe Saved SQL History

VENUE_ID	VENUE_NAME	VENUE_ADDRESS	CAPACITY	VCONTACT_PHONE	VCONTACT_EMAIL	VCONTACT_NAME
1	THE NATIONAL	708 E Broad St Richmond	200	5205555555	abed@vcu.edu	Albert Tunes
5	Canal Club	1545 E Cary St, Richmond, VA 23219	200	2055555559	CanalClb@yahoo.com	Vladmir Putin
2	Strange Matter	929 W Grace St, Richmond, VA 23220	350	2055555556	StrangeM@gmail.com	Charles Xavier
4	Altria Theater	6 N Laurel St, Richmond, VA 23220	250	2055555558	Altria@gmail.com	Donald Trump
3	The Broadberry	2729 W Broad St, Richmond, VA 23220	150	2055555557	Broadbrry@hotmail.com	James Monroe

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ORACLE App Builder SQL Workshop Team Development App Gallery Schema CASTROWORKS

SQL Commands Rows 10 Save Run

```
SELECT BANDS.BAND_NAME, MATCH.MATCH_ID
FROM BANDS
INNER JOIN MATCH
ON BANDS.BAND_ID = MATCH.BAND_ID
WHERE BANDS.BAND_ID < 10104;
```

Results Explain Describe Saved SQL History

BAND_NAME	MATCH_ID
Nirvana	1000001
Mom Jeans	1000002
Caamp	1000003

3 rows returned in 0.02 seconds Download

SELECT \* FROM "BANDS"

Results Explain Describe Saved SQL History

BAND_ID	BAND_NAME	BAND_PHONE	BAND_EMAIL	GENRE_ID	MERCH_ID	SM_ID
10102	Mom Jeans	5040000002	MomJeans@gmail.com	2	2	2
10101	Nirvana	5010000001	Nirvana@Aol.com	1	1	1
10103	Caamp	7570000003	Caamp@hotmail.com	3	3	3
10104	Neutral Milk Hotel	8200000004	NMH@Cox.com	4	4	4
10105	Alvvays	4050000005	Alvvays@yahoo.com	5	5	5

5 rows returned in 0.01 seconds Download

Rows 10

```
SELECT BANDS.BAND_NAME, VENUE.VENUE_NAME, MATCH.MATCH_ID
FROM BANDS
INNER JOIN MATCH
ON BANDS.BAND_ID = MATCH.BAND_ID
INNER JOIN VENUE
ON MATCH.VENUE_ID = VENUE.VENUE_ID
WHERE BANDS.BAND_ID < 10105;
```

BAND_NAME	VENUE_NAME	MATCH_ID
Nirvana	THE NATIONAL	1000001
Mom Jeans	Strange Matter	1000002
Caamp	The Broadberry	1000003
Neutral Milk Hotel	Altria Theater	1000004

4 rows returned in 0.05 seconds [Download](#)

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Schema CASTROWORKS

Rows 10

```
SELECT BANDS.BAND_NAME, VENUE.VENUE_NAME, MATCH.MATCH_ID, VENUE_EVENT_SCHEDULE.EVENT_TIME
FROM BANDS
INNER JOIN MATCH
ON BANDS.BAND_ID = MATCH.BAND_ID
INNER JOIN VENUE
ON MATCH.VENUE_ID = VENUE.VENUE_ID
INNER JOIN SCHEDULE
```

BAND_NAME	VENUE_NAME	MATCH_ID	EVENT_TIME
Nirvana	THE NATIONAL	1000001	2000
Mom Jeans	Strange Matter	1000002	2100
Caamp	The Broadberry	1000003	2100
Neutral Milk Hotel	Altria Theater	1000004	2200

4 rows returned in 0.04 seconds [Download](#)

Rows 10

```
INNER JOIN MATCH
ON BANDS.BAND_ID = MATCH.BAND_ID
INNER JOIN VENUE
ON MATCH.VENUE_ID = VENUE.VENUE_ID
INNER JOIN MARKETS
ON VENUE.VENUE_ID = MARKETS.VENUE_ID
INNER JOIN VENUE_MARKETING
ON MARKETS.AD_TD = VENUE_MARKETING.AD_TD
```

BAND_NAME	VENUE_NAME	MATCH_ID	AD_COMPANY
Nirvana	THE NATIONAL	1000001	COKE
Mom Jeans	Strange Matter	1000002	DOMINOES
Caamp	The Broadberry	1000003	TACO BELL
Neutral Milk Hotel	Altria Theater	1000004	TESLA

4 rows returned in 1.11 seconds [Download](#)

SQL Commands

Schema: CASTROWORKS

Rows: 10 | Clear Command | Find Tables | Save | Run

```
ON MATCH.VENUE_ID = VENUE.VENUE_ID
INNER JOIN INSURES
ON VENUE.VENUE_ID = INSURES.VENUE_ID
INNER JOIN VENUE_INSURANCE
ON VENUE_INSURANCE.INSURANCE_ID = INSURES.INSURANCE_ID
WHERE BANDS.BAND_ID < 10105;
```

Results | Explain | Describe | Saved SQL | History

BAND_NAME	VENUE_NAME	MATCH_ID	INSURANCE_ADDRESS
Nirvana	THE NATIONAL	1000001	175 Berkeley St Unit J091 Boston, MA 02116-5066
Mom Jeans	Strange Matter	1000002	2221 Edward Holland Dr #600, Richmond, VA 23230
Caamp	The Broadberry	1000003	3407 W Broad St, Richmond, VA 23230
Neutral Milk Hotel	Altria Theater	1000004	510 E Belt Blvd, Richmond, VA 23224

4 rows returned in 0.05 seconds | Download

SQL Commands

Rows: 10 | Clear Command | Find Tables | Save | Run

```
SELECT BANDS.BAND_NAME, VENUE.VENUE_NAME, VENUE.CAPACITY, MATCH.MATCH_ID, VENUE_INSURANCE.INSURANCE_ADDRESS
FROM BANDS
INNER JOIN MATCH
ON BANDS.BAND_ID = MATCH.BAND_ID
INNER JOIN VENUE
ON MATCH.VENUE_ID = VENUE.VENUE_ID
INNER JOIN INSURES
```

Results | Explain | Describe | Saved SQL | History

BAND_NAME	VENUE_NAME	CAPACITY	MATCH_ID	INSURANCE_ADDRESS
Nirvana	THE NATIONAL	200	1000001	175 Berkeley St Unit J091 Boston, MA 02116-5066
Mom Jeans	Strange Matter	350	1000002	2221 Edward Holland Dr #600, Richmond, VA 23230
Caamp	The Broadberry	150	1000003	3407 W Broad St, Richmond, VA 23230
Neutral Milk Hotel	Altria Theater	250	1000004	510 E Belt Blvd, Richmond, VA 23224

4 rows returned in 0.02 seconds | Download

SQL Commands

Rows: 10 | Clear Command | Find Tables | Save | Run

```
SELECT * FROM VENUE_INSURANCE
```

Results | Explain | Describe | Saved SQL | History

INSURANCE_ID	INSURANCE_NAME	INSURANCE_ADDRESS
10000001	Liberty Mutual Group	175 Berkeley St Unit J091 Boston, MA 02116-5066
10000002	Kinsale Insurance	2221 Edward Holland Dr #600, Richmond, VA 23230
10000003	Bailey Insurance Agency	3407 W Broad St, Richmond, VA 23230
10000004	Sweeney Insurance Agency	510 E Belt Blvd, Richmond, VA 23224
10000005	United Insurance Co	3600 W Broad St # 166, Richmond, VA 23230

5 rows returned in 0.01 seconds | Download

Rows

SELECT VENUE\_NAME, CAPACITY  
FROM VENUE|

(1)

VENUE_NAME	CAPACITY
THE NATIONAL	200
Canal Club	200
Strange Matter	350
Altria Theater	250
The Broadberry	150

5 rows returned in 0.01 seconds [Download](#)

---

Schema

Rows     Schema

SELECT \* FROM BAND\_MERCHANDISE|

(1)

MERCH_ID	BAND_ID
1100000001	10101
1100000002	10102
1100000003	10103
1100000004	10104
1100000005	10105

5 rows returned in 0.02 seconds [Download](#)

## SQL Commands

Schema

CASTROWORKS

Rows

10



Clear Command

Find Tables

Save

Run

SELECT \* FROM "VENUE"



Results

Explain

Describe

Saved SQL

History

VENUE_ID	VENUE_NAME	VENUE_ADDRESS	CAPACITY	VCONTACT_PHONE	VCONTACT_EMAIL	VCONTACT_NAME
1	THE NATIONAL	708 E Broad St Richmond	200	5205555555	abed@vcu.edu	Albert Tunes
5	Canal Club	1545 E Cary St, Richmond, VA 23219	200	2055555559	CanalC1b@yahoo.com	Vladmir Putin
2	Strange Matter	929 W Grace St, Richmond, VA 23220	350	2055555556	StrangeM@gmail.com	Charles Xavier
4	Altria Theater	6 N Laurel St, Richmond, VA 23220	250	2055555558	Altria@gmail.com	Donald Trump
3	The Broadberry	2729 W Broad St, Richmond, VA 23220	150	2055555557	Broadbrry@hotmail.com	James Monroe

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