



# Introduction to Database Project

Final Report

Title : Game Platform

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University of Jeddah

CCCS215: Introduction to Database

CY9 -17924

### The Description:

Nowadays, the demand for Video games is increasing worldwide because it develops thinking skills and quick reactions. They are also very entertaining and have become a source of income for many years.

Our idea is to create a Game Platform Strategy suitable for any Game Start-up-company. By including an online Store to cover players' needs and interests, Also by providing games and Live Streaming platforms, there will be managed and organized relationships between employees and suppliers also with some investors, to make the Start-up-company Ready to enter the market.

### Some required information that will be covered:

- Variety of video games  
(their invention company, the year of production )
- Names of famous players ( players age , skills)
- The online store requirements (product categories, orders)
- Live Streamers platforms (Famous Players, live-streaming services , investments)

### The Platform Entities:

- Online Store
- Employee
- Supplier
- Player
- Game
- Investor
- Live Stream

### Group member duties:

- Lameer Almoallim 2111368 "Leader",  
Design phases and reports. (Scenario & Oracle).  
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- Shahad Ahmed Alqarni 2111214 (ER model & Oracle).  
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## The Scenario:

A company called GamePlatform creates a fundamental strategy to help Start-up-company to build their own GameStore. The platform provides

Directions and information to the online game store to be implemented

The main spots to be covered are:

- The Online\_Store includes order\_ID, Product\_categories, Products ,shipping\_Address(Country, City, neighborhood), Delivery , Price .
- Employes including Employee\_ID, Employee\_Name, salary,
- Suppliers including Supplier\_ ID , Supplier \_Name , contact\_address.
- Players including their Username, age, {Skill\_level}.
- Games including their Name and categories, Developer\_name , [relese\_date].
- Investors with investors-id ,(Investor\_name), Investment\_Type , [invest\_date].
- Live Stream that must include Straming\_id , Stream\_Platform, points.

To work on the Game Store, a Supplier must provide many games to the Game Store, and the Game Store must be managed by many Employees.

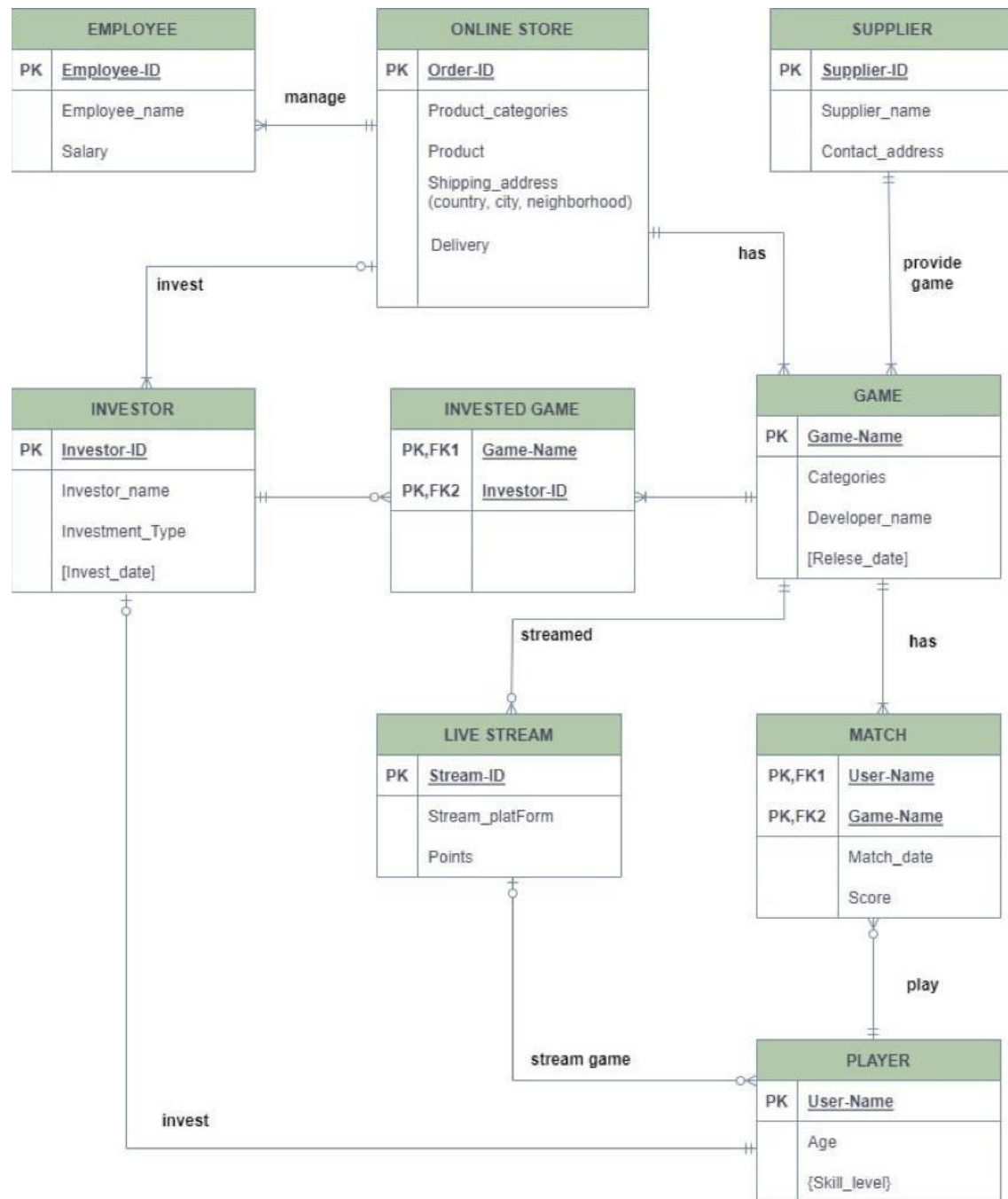
Many Players may play many games, but the game must be played by players , including matches.

A live stream could happen while playing games, so the player may Stream only one game at a time, but Streaming may accrue by multiple players. In addition, one game maybe streamed in many live stream.

Investors have a relationship with the Game Store, Players, and Games

So Investors may invest in the Game Store. The Game Store must have investors; also, many investors may invest in Different games, and a game must be invested by one investor or more. In addition, investors must invest in one player.

## The ER Module:



The Relation:

Employee

Order-ID (FK)	<u>Employee-ID</u>	salary
---------------	--------------------	--------

Online\_Store

<u>Order-ID</u>	Product_categories	product	country	city	neighborhood	delivery
-----------------	--------------------	---------	---------	------	--------------	----------

Investor

Order-ID (FK)	<u>Investor-ID</u>	User-Name (FK)	Investore_Name	Investment_Type	Invest_date
---------------	--------------------	----------------	----------------	-----------------	-------------

Invested\_Game

<u>Game-Name</u>	<u>Investor-ID</u>
------------------	--------------------

Game

<u>Game-Name</u>	Order-ID (FK)	<u>Supplier-ID</u> (FK)	categories	Develop_name	Relese_Date
------------------	---------------	-------------------------	------------	--------------	-------------

Match

<u>User-Name</u>	<u>Game-Name</u>	Date	Score
------------------	------------------	------	-------

Player

<u>User-Name</u>	Straming-ID(FK)	Age
------------------	-----------------	-----

Skill\_Level

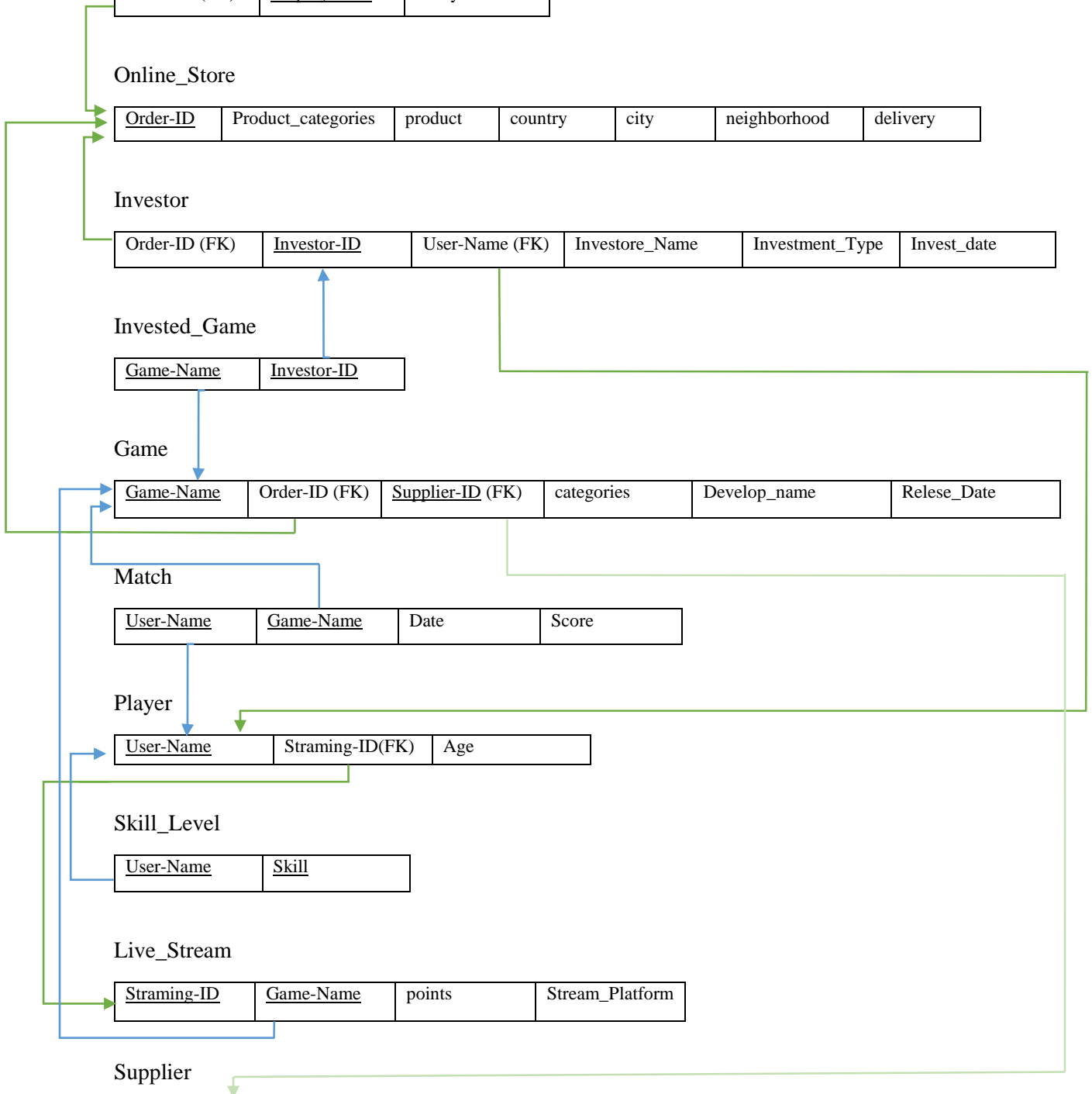
<u>User-Name</u>	<u>Skill</u>
------------------	--------------

Live\_Stream

<u>Straming-ID</u>	<u>Game-Name</u>	points	Stream_Platform
--------------------	------------------	--------	-----------------

Supplier

<u>Supplier-ID</u>	Supplier_name	Contact_address
--------------------	---------------	-----------------



### The Normalization:

- For Player Table  
Player ( User-Name , Age , (Skill) )  
  
- 1NF  
Player ( User-Name , Age )  
Player\_Skill ( User-Name , Skill )  
  
- 2NF, 3NF (Are applied in 1NF)
- For Online\_Store Table  
  
- 1NF , 2NF (Are already applied)  
  
-3NF  
Product ( Product-categories , Product )  
Online\_Store ( Order-ID , Product , Product\_categories (FK) , country , city , neighborhood, delivery )
- The Tables that are already in 3NF :  
  
Employee (Order-ID (FK) , Employee-ID , salary ) 3NF  
  
Investor (Order-ID (FK) , Investor-ID , User-Name (FK) , Investore\_Name , Investment\_Type , Invest\_date) 3NF  
  
Invested\_Game ( Game-Name , Investor-ID ) 3NF  
  
Game ( Game-Name , categories , developer-name , Develop\_name , Release\_Date ) 3NF  
  
Match ( User-Name , Game-Name , Date , Score ) 3NF  
  
Live\_Stram ( Straming-ID , Game-Name , points , Stream\_Platform ) 3NF  
  
Supplier ( Supplier-ID , Supplier\_name , Contact\_address ) 3NF

# Oracle Tables

## Part 1

### Creating the tables

The screenshot shows the Live SQL interface with the following SQL code in the editor:

```
1 CREATE TABLE Supplier(  
2 Supplier_ID NUMBER(5) NOT NULL PRIMARY KEY,  
3 Supplier_Name VARCHAR2(12),  
4 Contact_Address VARCHAR2(25)  
5 );  
6 describe Supplier;  
7  
8 CREATE TABLE Product(  
9 Product_Categories VARCHAR2(25) PRIMARY KEY,  
10 Product VARCHAR2(15)  
11 );  
12  
13  
14 CREATE TABLE Online Store(  
15
```

The output area shows the message "Table created." and a table definition for the 'SUPPLIER' table:

Column	Null?	Type
SUPPLIER_ID	NOT NULL	NUMBER(5,0)
SUPPLIER_NAME	-	VARCHAR2(12)
CONTACT_ADDRESS	-	VARCHAR2(25)

Below the table, it says "Download CSV" and "3 rows selected."

At the bottom, the footer text reads: "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym. Built with ♥ using Oracle APEX - Privacy - Terms of Use"

The screenshot shows the Live SQL interface with the following SQL code in the editor:

```
1 CREATE TABLE Supplier(  
2 Supplier_ID NUMBER(5) NOT NULL PRIMARY KEY,  
3 Supplier_Name VARCHAR2(12),  
4 Contact_Address VARCHAR2(25)  
5 );  
6 describe Supplier;  
7  
8 CREATE TABLE Product(  
9 Product_Categories VARCHAR2(25) PRIMARY KEY,  
10 Product VARCHAR2(15)  
11 );  
12 describe Product;  
13  
14 CREATE TABLE Online Store(  
15
```

The output area shows the message "Table created." and a table definition for the 'PRODUCT' table:

Column	Null?	Type
PRODUCT_CATEGORIES	NOT NULL	VARCHAR2(25)
PRODUCT	-	VARCHAR2(15)

Below the table, it says "Download CSV" and "2 rows selected."

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Live SQL

SQL Worksheet

```
13
14 CREATE TABLE Online_Store(
15   Order_ID NUMBER(8) NOT NULL PRIMARY KEY,
16   Product_categories VARCHAR2(25),
17   Product VARCHAR2(15) ,
18   country VARCHAR2(20),
19   city VARCHAR2(30),
20   neighborhood VARCHAR2(20),
21   delivery VARCHAR2(5),
22   FOREIGN KEY (Product_categories) REFERENCES Product(Product_categories)
23 );
24 describe Online_Store;
```

TABLE ONLINE\_STORE

Column	Null?	Type
ORDER_ID	NOT NULL	NUMBER(8,0)
PRODUCT_CATEGORIES	-	VARCHAR2(25)
PRODUCT	-	VARCHAR2(15)
COUNTRY	-	VARCHAR2(20)
CITY	-	VARCHAR2(30)
NEIGHBORHOOD	-	VARCHAR2(20)
DELIVERY	-	VARCHAR2(5)

Download CSV  
7 rows selected.

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Live SQL

SQL Worksheet

```
23 );
24 describe Online_Store;
25
26 CREATE TABLE Employee(
27   Order_ID NUMBER(8),
28   Employee_ID NUMBER(5) NOT NULL PRIMARY KEY,
29   Employee_Name VARCHAR2(20),
30   salary NUMBER(6),
31   FOREIGN KEY (Order_ID) REFERENCES Online_Store(Order_ID)
32 );
33 describe Employee;
```

Table created.

TABLE EMPLOYEE

Column	Null?	Type
ORDER_ID	-	NUMBER(8,0)
EMPLOYEE_ID	NOT NULL	NUMBER(5,0)
EMPLOYEE_NAME	-	VARCHAR2(20)
SALARY	-	NUMBER(6,0)

Download CSV  
4 rows selected.

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Live SQL

SQL Worksheet

```
35
36 CREATE TABLE Game(
37   game_name VARCHAR2(20),
38   Categories VARCHAR2(10),
39   Developer_name VARCHAR2(25) NOT NULL,
40   Release_date DATE,
41   Order_ID NUMBER(8),
42   Supplier_ID NUMBER(5),
43   PRIMARY KEY (Game_name),
44   FOREIGN KEY (Supplier_ID) REFERENCES Supplier(Supplier_ID),
45   FOREIGN KEY (Order_ID) REFERENCES Online_Store (Order_ID)
46 );
47 describe Game;
```

TABLE GAME

Column	Null?	Type
GAME_NAME	NOT NULL	VARCHAR2(20)
CATEGORIES	-	VARCHAR2(10)
DEVELOPER_NAME	NOT NULL	VARCHAR2(25)
RELEASE_DATE	-	DATE
ORDER_ID	-	NUMBER(8,0)
SUPPLIER_ID	-	NUMBER(5,0)

Download CSV  
6 rows selected.

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Live SQL

SQL Worksheet

```
49
50 CREATE TABLE Live_stream(
51   Stream_ID NUMBER(8),
52   Game_name VARCHAR2(20),
53   points NUMBER(6),
54   Stream_platform VARCHAR2(10),
55
56   PRIMARY KEY(Stream_ID),
57   FOREIGN KEY (Game_name) REFERENCES Game(Game_name)
58 );
59 describe Live_stream;
60
61
62 CREATE TABLE player(
```

Table created.

TABLE LIVE\_STREAM

Column	Null?	Type
STREAM_ID	NOT NULL	NUMBER(8,0)
GAME_NAME	-	VARCHAR2(20)
POINTS	-	NUMBER(6,0)
STREAM_PLATFORM	-	VARCHAR2(10)

Download CSV  
4 rows selected.

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Live SQL

SQL Worksheet

```
59 describe Live_stream;
60
61
62 CREATE TABLE player(
63   User_name VARCHAR2(10),
64   Stream_ID NUMBER(8),
65   Age NUMBER(2),
66
67   PRIMARY KEY(User_name),
68   FOREIGN KEY (Stream_ID) REFERENCES Live_stream(Stream_ID)
69 );
70 describe player;
71
```

Table created.

TABLE PLAYER

Column	Null?	Type
USER_NAME	NOT NULL	VARCHAR2(10)
STREAM_ID	-	NUMBER(8,0)
AGE	-	NUMBER(2,0)

Download CSV  
3 rows selected.

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Live SQL

SQL Worksheet

```
70 describe player;
71
72
73 CREATE TABLE Match(
74   User_name VARCHAR2(10),
75   Game_name VARCHAR2(20),
76   Score NUMBER(5) NOT NULL,
77   Match_date date ,
78
79   PRIMARY KEY (User_name, Game_name),
80   FOREIGN KEY (Game_name) REFERENCES Game (Game_name)
81 );
82 describe Match;
83
```

Table created.

TABLE MATCH

Column	Null?	Type
USER_NAME	NOT NULL	VARCHAR2(10)
GAME_NAME	NOT NULL	VARCHAR2(20)
SCORE	NOT NULL	NUMBER(5,0)
MATCH_DATE	-	DATE

Download CSV  
4 rows selected.

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Live SQL

SQL Worksheet

```
80 FOREIGN KEY (Game_name) REFERENCES Game (Game_name)
81 );
82 describe Match;
83
84
85 CREATE TABLE Skill_Level(
86 User_Name Varchar2(10) NOT NULL ,
87 Skill Varchar2(15) NOT NULL,
88 PRIMARY KEY(User_Name, Skill)
89 );
90 describe Skill_Level;
91
92 CREATE TABLE Investor(
93 Order_ID Number(8)
```

Table created.

TABLE SKILL\_LEVEL

Column	Null?	Type
USER_NAME	NOT NULL	VARCHAR2(10)
SKILL	NOT NULL	VARCHAR2(15)

Download CSV  
2 rows selected.

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Live SQL

SQL Worksheet

```
92 CREATE TABLE Investor(
93 Order_ID Number(8),
94 Investor_ID Number(5) NOT NULL PRIMARY KEY ,
95 User_Name Varchar2(10),
96 Investore_Name Varchar2(20),
97 Investment_Type Varchar2(15),
98 Invest_date date,
99
100 FOREIGN KEY (Order_ID) REFERENCES Online_Store(Order_ID),
101 FOREIGN KEY (User_Name) REFERENCES Player(User_Name)
102 );
103 describe Investor;
104
```

TABLE INVESTOR

Column	Null?	Type
ORDER_ID	-	NUMBER(8,0)
INVESTOR_ID	NOT NULL	NUMBER(5,0)
USER_NAME	-	VARCHAR2(10)
INVESTORE_NAME	-	VARCHAR2(20)
INVESTMENT_TYPE	-	VARCHAR2(15)
INVEST_DATE	-	DATE

Download CSV  
6 rows selected.

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Live SQL

SQL Worksheet

```
105
106 CREATE TABLE Invested_Game(
107 Game_name VARCHAR2(20),
108 Investor_ID Number(5),
109
110 PRIMARY KEY (Game_name,Investor_ID),
111 FOREIGN KEY (Game_name) REFERENCES Game(Game_name),
112 FOREIGN KEY (Investor_ID) REFERENCES Investor(Investor_ID)
113 );
114 describe Invested_Game;
115
116
117
```

Table created.

TABLE INVESTED\_GAME

Column	Null?	Type
GAME_NAME	NOT NULL	VARCHAR2(20)
INVESTOR_ID	NOT NULL	NUMBER(5,0)

Download CSV  
2 rows selected.

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## The code for Creating Tables:

```
CREATE TABLE Supplier(  
Supplier_ID NUMBER(5) NOT NULL PRIMARY KEY,  
Supplier_name VARCHAR2(12),  
Contact_address VARCHAR2(25)  
);  
describe Supplier;
```

```
CREATE TABLE Product(  
Product_categories VARCHAR2(25) PRIMARY KEY,  
Product VARCHAR2(15)  
);  
describe Product;
```

```
CREATE TABLE Online_Store(  
Order_ID NUMBER(8) NOT NULL PRIMARY KEY,  
Product_categories VARCHAR2(25),  
Product VARCHAR2(15) ,  
country VARCHAR2(20),  
city VARCHAR2(30),  
neighborhood VARCHAR2(20),  
delivery VARCHAR2(5),  
FOREIGN KEY (Product_categories) REFERENCES Product(Product_categories)  
);  
describe Online_Store;
```

```
CREATE TABLE Employee(  
    Order_ID NUMBER(8),  
    Employee_ID NUMBER(5) NOT NULL PRIMARY KEY,  
    Employee_Name VARCHAR2(20),  
    salary NUMBER(6),  
    FOREIGN KEY (Order_ID) REFERENCES Online_Store(Order_ID)  
);  
  
describe Employee;
```

```
CREATE TABLE Game(  
    Game_name VARCHAR2(20),  
    Categories VARCHAR2(10),  
    Developer_name VARCHAR2(25) NOT NULL,  
    Release_date DATE,  
    Order_ID NUMBER(8),  
    Supplier_ID NUMBER(5),  
    PRIMARY KEY (Game_name),  
    FOREIGN KEY (Supplier_ID) REFERENCES Supplier(Supplier_ID),  
    FOREIGN KEY (Order_ID) REFERENCES Online_Store (Order_ID)  
);  
  
describe Game;
```

```
CREATE TABLE Live_stream(  
    Stream_ID NUMBER(8),  
    Game_name VARCHAR2(20),  
    points NUMBER(6),  
    Stream_platform VARCHAR2(10),  
  
    PRIMARY KEY(Stream_ID),  
    FOREIGN KEY (Game_name) REFERENCES Game(Game_name)  
);  
  
describe Live_stream;
```

```
CREATE TABLE player(  
  User_name VARCHAR2(10),  
  Stream_Id NUMBER(8),  
  Age NUMBER(2),  
  PRIMARY KEY(User_name),  
  FOREIGN KEY (Stream_ID) REFERENCES Live_stream(Stream_ID)  
);  
describe player;
```

```
CREATE TABLE Match(  
  User_name VARCHAR2(10),  
  Game_name VARCHAR2(20),  
  Score NUMBER(5) NOT NULL,  
  Match_date date ,  
  
  PRIMARY KEY (User_name, Game_name),  
  FOREIGN KEY (Game_name) REFERENCES Game (Game_name)  
);  
describe Match;
```

```
CREATE TABLE Skill_Level(  
  User_Name Varchar2(10) NOT NULL ,  
  Skill Varchar2(15) NOT NULL,  
  PRIMARY KEY(User_Name, Skill)  
);  
describe Skill_Level;
```

```
CREATE TABLE Investor(  
Order_ID Number(8),  
Investor_ID Number(5) NOT NULL PRIMARY KEY ,  
User_Name Varchar2(10),  
Investore_Name Varchar2(20),  
Investment_Type Varchar2(15),  
Invest_date date,  
  
FOREIGN KEY (Order_ID) REFERENCES Online_Store(Order_ID),  
FOREIGN KEY (User_Name) REFERENCES Player(User_Name)  
);  
  
describe Investor;
```

```
CREATE TABLE Invested_Game(  
Game_name VARCHAR2(20),  
Investor_ID Number(5),  
  
PRIMARY KEY (Game_name,Investor_ID),  
FOREIGN KEY (Game_name) REFERENCES Game(Game_name),  
FOREIGN KEY (Investor_ID) REFERENCES Investor(Investor_ID)  
);  
  
describe Invested_Game;
```

## Part 2

### Inserting values into tables

Live SQL

SQL Worksheet

```
113 ;
114 describe Invested_Game;
115
116
117 INSERT INTO Supplier VALUES(18099,'Nintendo','Nintendo@gmail.com');
118 INSERT INTO Supplier VALUES(20987,'Sony','Sony@gmail.com');
119 INSERT INTO Supplier VALUES(21900,'Activision','Activision@hotmail.com');
120 INSERT INTO Supplier VALUES(19655,'Capcom','Capcom@gmail.com');
121 INSERT INTO Supplier VALUES(22387,'Sega','Sega@hotmail.com');
122 SELECT * FROM Supplier;
123
124
125
126
```

1 row(s) inserted.

SUPPLIER_ID	SUPPLIER_NAME	CONTACT_ADDRESS
18099	Nintendo	Nintendo@gmail.com
20987	Sony	Sony@gmail.com
21900	Activision	Activision@hotmail.com
19655	Capcom	Capcom@gmail.com
22387	Sega	Sega@hotmail.com

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
121 INSERT INTO Supplier VALUES(22387,'Sega','Sega@hotmail.com');
122 SELECT * FROM Supplier;
123
124
125 INSERT INTO Product VALUES('Gaming Accessories','controllers');
126 INSERT INTO Product VALUES('PC','Monitors');
127 INSERT INTO Product VALUES('Consoles & Hardware','Playstation 5');
128 INSERT INTO Product VALUES('Video Games','Wii Sports');
129 INSERT INTO Product VALUES('Electronics','cameras');
130 SELECT * FROM Product;
131
132
133
134
```

1 row(s) inserted.

PRODUCT_CATEGORIES	PRODUCT
Gaming Accessories	controllers
PC	Monitors
Consoles & Hardware	Playstation 5
Video Games	Wii Sports
Electronics	cameras

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Live SQL

SQL Worksheet

```
133
134 INSERT INTO Online_Store VALUES(1256,'Gaming Accessories','controllers','USA','New York City','Melrose','Yes');
135 INSERT INTO Online_Store VALUES(1258,'PC','Monitors','USA','Arizona,Phoenix','Coronado','Yes');
136 INSERT INTO Online_Store VALUES(1292,'Consoles & Hardware','Playstation 5','UK','Manchester','Bakersville',Null);
137 INSERT INTO Online_Store VALUES(1267,'Video Games','Wii Sports','USA','California,Los Angeles','West Hollywood','Yes');
138 INSERT INTO Online_Store VALUES(1288,'Electronics','cameras','UK','London','Whitehall',Null);
139 SELECT * FROM Online_Store;
140
141
142
143
144
145
---
```

1 row(s) inserted.

ORDER_ID	PRODUCT_CATEGORIES	PRODUCT	COUNTRY	CITY	NEIGHBORHOOD	DELIVERY
1256	Gaming Accessories	controllers	USA	New York City	Melrose	Yes
1258	PC	Monitors	USA	Arizona,Phoenix	Coronado	Yes
1292	Consoles & Hardware	Playstation 5	UK	Manchester	Bakersville	-
1267	Video Games	Wii Sports	USA	California,Los Angeles	West Hollywood	Yes
1288	Electronics	cameras	UK	London	Whitehall	-

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
130 INSERT INTO Online_Store VALUES(1292,'Consoles & Hardware','Playstation 5','UK','Manchester','Bakersville',Null);
137 INSERT INTO Online_Store VALUES(1267,'Video Games','Wii Sports','USA','California,Los Angeles','West Hollywood','Yes');
138 INSERT INTO Online_Store VALUES(1288,'Electronics','cameras','UK','London','Whitehall',Null);
139 SELECT * FROM Online_Store;
140
141 INSERT INTO Employee VALUES(1256,22146,'Ahmed Hassan',4000 );
142 INSERT INTO Employee VALUES(1258,23367,'Yazan Mohammed',2600);
143 INSERT INTO Employee VALUES(1292,22755,'Abdullah Ali',3500);
144 INSERT INTO Employee VALUES(1267,22890,'Mohammed Ahmed',3000);
145 INSERT INTO Employee VALUES(1288,23700,'saad Ali',1500);
146 SELECT * FROM Employee;
147
148
149
```

1 row(s) inserted.

ORDER_ID	EMPLOYEE_ID	EMPLOYEE_NAME	SALARY
1256	22146	Ahmed Hassan	4000
1258	23367	Yazan Mohammed	2600
1292	22755	Abdullah Ali	3500
1267	22890	Mohammed Ahmed	3000
1288	23700	saad Ali	1500

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
140 INSERT INTO Employee VALUES(1288,23700,'saad Ali',1500);
146 SELECT * FROM Employee;
147
148 INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID, Supplier_ID)
149 VALUES ('MyFarm', 'Fun', 'John and Smith', '03-Nov-2020', 1256, 20987);
150 INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID, Supplier_ID)
151 VALUES ('Stitch', 'Action', 'MyGame company', '15-Apr-2021', 1258, 18099);
152 INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID, Supplier_ID)
153 VALUES ('Call of Duty', 'Action', 'Activision Publishing', '22-May-2019', 1292, 21900);
154 INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID, Supplier_ID)
155 VALUES ('Fun Run', 'Racing', 'Rogue Games', '30-Dec-2021', 1267, 19655);
156 INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID, Supplier_ID)
157 VALUES ('Score Match', 'Sport', 'Rogue Games', '09-May-2020', 1288, 22387);
158 SELECT * FROM Game;
159
```

1 row(s) inserted.

GAME_NAME	CATEGORIES	DEVELOPER_NAME	RELEASE_DATE	ORDER_ID	SUPPLIER_ID
MyFarm	Fun	John and Smith	03-NOV-20	1256	20987
Stitch	Action	MyGame company	15-APR-21	1258	18099
Call of Duty	Action	Activision Publishing	22-MAY-19	1292	21900
Fun Run	Racing	Rogue Games	30-DEC-21	1267	19655
Score Match	Sport	Rogue Games	09-MAY-20	1288	22387

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
155 VALUES ('Fun Run', 'Racing', 'Rogue Games', '20-Dec-2021', 120, 190037);
156 INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID, Supplier_ID)
157 VALUES ('Score Match', 'Sport', 'Rogue Games', '09-May-2020', 1288, 22387);
158 SELECT * FROM Game;
159
160 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51111,'Myfarm',30,'Discord');
161 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51112,'Stitch',40,'Tiktok');
162 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51113,'Call of Duty',56,'Twitch');
163 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51114,'Fun Run',3,'Discord');
164 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51115,'Score Match',90,'Twitch');
165 SELECT * FROM Live_stream;
166
167
168
```

1 row(s) inserted.

STREAM_ID	GAME_NAME	POINTS	STREAM_PLATFORM
51111	Myfarm	30	Discord
51112	Stitch	40	Tiktok
51113	Call of Duty	56	Twitch
51114	Fun Run	3	Discord
51115	Score Match	90	Twitch

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
164 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51110,'Fun Run',3,'Discord');
165 INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform) VALUES(51115,'Score Match',90,'Twitch');
166 SELECT * FROM Live_stream;
167
168
169 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('John22',51111,20);
170 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Sara_96',51112,17);
171 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Sami2',51113,30);
172 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Losi_Smith',51114,9);
173 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Joseph5',51115,27);
174 SELECT * FROM player;
175
176
```

1 row(s) inserted.

USER_NAME	STREAM_ID	AGE
John22	51111	20
Sara_96	51112	17
Sami2	51113	30
Losi_Smith	51114	9
Joseph5	51115	27

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
174 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Sami2',51113,30);
175 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Losi_Smith',51114,9);
176 INSERT INTO player (User_name,Stream_ID,Age) VALUES ('Joseph5',51115,27);
177 SELECT * FROM player;
178
179 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('John22', 'Call of Duty', 1025, '07-Feb-2022');
180 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Sara_96', 'Call of Duty', 6330, '07-Feb-2022');
181 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Sami2', 'Fun Run', 2989, '12-Mar-2022');
182 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Losi_Smith', 'Myfarm', 90871, '29-Mar-2022');
183 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Joseph5', 'Score Match', 22982, '14-Apr-2020');
184 SELECT * FROM Match;
185
186
```

1 row(s) inserted.

USER_NAME	GAME_NAME	SCORE	MATCH_DATE
John22	Call of Duty	1025	07-FEB-22
Sara_96	Call of Duty	6330	07-FEB-22
Sami2	Fun Run	2989	12-MAR-22
Losi_Smith	Myfarm	90871	29-MAR-22
Joseph5	Score Match	22982	14-APR-20

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
179 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Sami2', 'Fun Run', 2980, '12-Mar-2022');
180 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Losi_Smith', 'MyFarm', 98871, '29-Mar-2022');
181 INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Joseph5', 'Score Match', 22982, '14-Apr-2020');
182 SELECT * FROM Match;
183
184
185 INSERT INTO Skill_Level VALUES('John22', 'Advanced');
186 INSERT INTO Skill_Level VALUES('Sara_96', 'Beginner');
187 INSERT INTO Skill_Level VALUES('Sami2', 'Intermediate');
188 INSERT INTO Skill_Level VALUES('Losi_Smith', 'Intermediate');
189 INSERT INTO Skill_Level VALUES('Joseph5', 'Advanced');
190 SELECT * FROM Skill_Level;
191
192
```

1 row(s) inserted.

USER_NAME	SKILL
John22	Advanced
Joseph5	Advanced
Losi_Smith	Intermediate
Sami2	Intermediate
Sara_96	Beginner

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
188 INSERT INTO Skill_Level VALUES('Losi_Smith', 'Intermediate');
189 INSERT INTO Skill_Level VALUES('Joseph5', 'Advanced');
190 SELECT * FROM Skill_Level;
191
192
193 INSERT INTO Investor VALUES(1256, 23654, 'John22', 'Ellen Roach', 'Shares', '01-MAY-2021');
194 INSERT INTO Investor VALUES(1258, 23624, 'Sara_96', 'Anton Morris', 'Fixed Interest', '04-MAY-2021');
195 INSERT INTO Investor VALUES(1292, 23668, 'Sami2', 'Camren Braun', 'Cash', '12-JUN-2021');
196 INSERT INTO Investor VALUES(1267, 24735, 'Losi_Smith', 'Tony Brady', 'Cash', '15-JUN-2021');
197 INSERT INTO Investor VALUES(1288, 24765, 'Joseph5', 'Liam Oneal', 'Shares', '19-JUN-2021');
198 SELECT * FROM Investor;
199
200
201
```

1 row(s) inserted.

ORDER_ID	INVESTOR_ID	USER_NAME	INVESTOR_NAME	INVESTMENT_TYPE	INVEST_DATE
1256	23654	John22	Ellen Roach	Shares	01-MAY-21
1258	23624	Sara_96	Anton Morris	Fixed Interest	04-MAY-21
1292	23668	Sami2	Camren Braun	Cash	12-JUN-21
1267	24735	Losi_Smith	Tony Brady	Cash	15-JUN-21
1288	24765	Joseph5	Liam Oneal	Shares	19-JUN-21

Download CSV  
5 rows selected.

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Live SQL

SQL Worksheet

```
198 SELECT * FROM Investor;
199
200
201
202 INSERT INTO Invested_Game(Game_name, Investor_ID) VALUES ('MyFarm', 23654);
203 INSERT INTO Invested_Game(Game_name, Investor_ID) VALUES ('Stitch', 23624);
204 INSERT INTO Invested_Game(Game_name, Investor_ID) VALUES ('Call of Duty', 23668);
205 INSERT INTO Invested_Game(Game_name, Investor_ID) VALUES ('Fun Run', 24735);
206 INSERT INTO Invested_Game(Game_name, Investor_ID) VALUES ('Score Match', 24765);
207 SELECT * FROM Invested_Game;
208
209
210
211
```

1 row(s) inserted.

GAME_NAME	INVESTOR_ID
Call of Duty	23668
Fun Run	24735
MyFarm	23654
Score Match	24765
Stitch	23624

Download CSV  
5 rows selected.

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## The code for the inserting values:

```
INSERT INTO Supplier VALUES(18099,'Nintendo','Nintendo@gmail.com');
INSERT INTO Supplier VALUES(20987,'Sony','Sony@gmail.com');
INSERT INTO Supplier VALUES(21900,'Activision','Activision@mhotmail.com');
INSERT INTO Supplier VALUES(19655,'Capcom','Capcom@gmail.com');
INSERT INTO Supplier VALUES(22387,'Sega','Sega@mhotmail.com');
SELECT * FROM Supplier;
```

```
INSERT INTO Product VALUES('Gaming Accessories','controllers');
INSERT INTO Product VALUES('PC','Monitors');
INSERT INTO Product VALUES('Consoles & Hardware','Playstation 5');
INSERT INTO Product VALUES('Video Games','Wii Sports');
INSERT INTO Product VALUES('Electronics','cameras');
SELECT * FROM Product;
```

```
INSERT INTO Online_Store VALUES(1256,'Gaming Accessories','controllers','USA','New
York City','Melrose','Yes');
INSERT INTO Online_Store
VALUES(1258,'PC','Monitors','USA','Arizona,Phoenix','Coronado','Yes');
INSERT INTO Online_Store VALUES(1292,'Consoles & Hardware','Playstation
5','UK','Manchester','Bakersville',Null);
INSERT INTO Online_Store VALUES(1267,'Video Games','Wii
Sports','USA','California,Los Angeles','West Hollywood','Yes');
INSERT INTO Online_Store
VALUES(1288,'Electronics','cameras','UK','London','Whitehall',Null);
SELECT * FROM Online_Store;
```

```
INSERT INTO Employee VALUES(1256,22146,'Ahmed Hassan',4000 );
INSERT INTO Employee VALUES(1258,23367,'Yazan Mohammed',2600);
INSERT INTO Employee VALUES(1292,22755,'Abdullah Ali',3500);
INSERT INTO Employee VALUES(1267,22890,'Mohammed Ahmed',3000);
INSERT INTO Employee VALUES(1288,23700,'saad Ali',1500);
SELECT * FROM Employee;
```

```
INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID,
Supplier_ID)
VALUES ('MyFarm', 'Fun', 'John and Smith', '03-Nov-2020', 1256, 20987);
INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID,
Supplier_ID)
VALUES ('Stitch', 'Action', 'MyGame company', '15-Apr-2021', 1258, 18099);
INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID,
Supplier_ID)
VALUES ('Call of Duty', 'Action', 'Activision Publishing', '22-May-2019', 1292, 21900);
INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID,
Supplier_ID)
VALUES ('Fun Run', 'Racing', 'Rogue Games', '30-Dec-2021', 1267, 19655);
INSERT INTO Game (Game_name, Categories, Developer_name, Release_date, Order_ID,
Supplier_ID)
VALUES ('Score Match', 'Sport', 'Rogue Games', '09-May-2020', 1288, 22387);
SELECT * FROM Game;
```

```
INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform)
VALUES(51111,'MyFarm',30,'Discord');
INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform)
VALUES(51112,'Stitch',40,'Tiktok');
INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform)
VALUES(51113,'Call of Duty',56,'Twitch');
INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform)
VALUES(51114,'Fun Run',3,'Discord');
INSERT INTO Live_stream (Stream_ID,Game_name,points,Stream_platform)
VALUES(51115,'Score Match',90,'Twitch');
SELECT * FROM Live_stream;
```

```
INSERT INTO player(User_name,Stream_ID,Age) VALUES ('John22',51111,20);
INSERT INTO player(User_name,Stream_ID,Age) VALUES ('Sara_96',51112,17);
INSERT INTO player(User_name,Stream_ID,Age) VALUES ('Sami2',51113,30);
INSERT INTO player(User_name,Stream_ID,Age) VALUES ('Losi_Smith',51114,9);
INSERT INTO player(User_name,Stream_ID,Age) VALUES ('Joseph5',51115,27);
SELECT * FROM player;
```

```
INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('John22',
'Call of Duty', 1025, '07-Feb-2022');
INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Sara_96',
'Call of Duty', 6330, '07-Feb-2022');
INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Sami2',
'Fun Run', 2989, '12-Mar-2022');
INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES
('Losi_Smith', 'MyFarm', 90871, '29-Mar-2022');
INSERT INTO Match (User_name, Game_name, Score, Match_date) VALUES ('Joseph5',
'Score Match', 22982, '14-Apr-2020');
SELECT * FROM Match;
```

```
INSERT INTO Skill_Level VALUES('John22','Advanced');
INSERT INTO Skill_Level VALUES('Sara_96','Beginner');
INSERT INTO Skill_Level VALUES('Sami2','Intermediate');
INSERT INTO Skill_Level VALUES('Losi_Smith','Intermediate');
INSERT INTO Skill_Level VALUES('Joseph5','Advanced');
SELECT * FROM Skill_Level;
```

```
INSERT INTO Investor VALUES(1256,23654,'John22','Ellen Roach','Shares','01-MAY-2021');
```

```
INSERT INTO Investor VALUES(1258,23624,'Sara_96','Anton Morris','Fixed interest','4-MAY-2021');
```

```
INSERT INTO Investor VALUES(1292,23668,'Sami2','Camren Braun','Cash','12-JUN-2021');
```

```
INSERT INTO Investor VALUES(1267,24735,'Losi_Smith','Tony Brady','Cash','15-JUN-2021');
```

```
INSERT INTO Investor VALUES(1288,24765,'Joseph5','Liam Oneal','Shares','19-JUN-2021');
```

```
SELECT * FROM Investor;
```

```
INSERT INTO Invested_Game(Game_name,Investor_ID) VALUES ('MyFarm',23654);
```

```
INSERT INTO Invested_Game(Game_name,Investor_ID) VALUES ('Stitch',23624);
```

```
INSERT INTO Invested_Game(Game_name,Investor_ID) VALUES ('Call of Duty',23668);
```

```
INSERT INTO Invested_Game(Game_name,Investor_ID) VALUES ('Fun Run',24735);
```

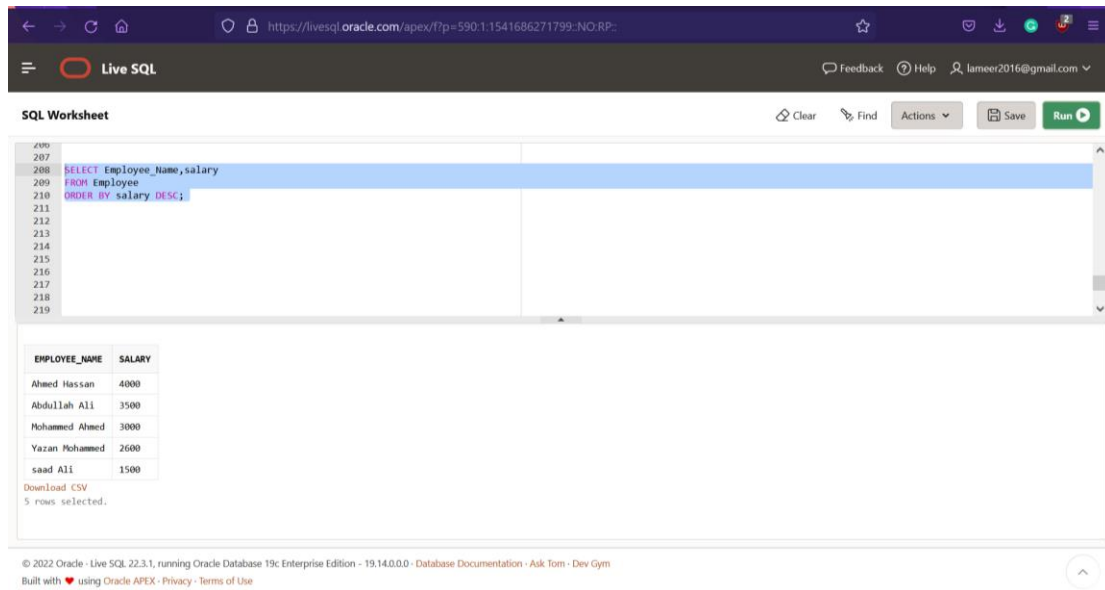
```
INSERT INTO Invested_Game(Game_name,Investor_ID) VALUES ('Score Match',24765);
```

```
SELECT * FROM Invested_Game;
```

## Part 3

### Adding queries to the tables

(Using Order BY QUERY)



The screenshot shows the Live SQL web application interface. The browser address bar displays the URL: `https://livesql.oracle.com/apex/T?p=590.1:1541686271799::NO.RP::`. The page title is "Live SQL". The main content area is titled "SQL Worksheet" and contains the following SQL query:

```
SELECT Employee_Name,salary
FROM Employee
ORDER BY salary DESC;
```

Below the query editor, the results are displayed in a table with two columns: "EMPLOYEE\_NAME" and "SALARY". The table contains five rows of data:

EMPLOYEE_NAME	SALARY
Ahmed Hassan	4000
Abdullah Ali	3500
Mohammed Ahmed	3000
Yazan Mohammed	2600
saad Ali	1500

Below the table, there is a link to "Download CSV" and a message stating "5 rows selected.".

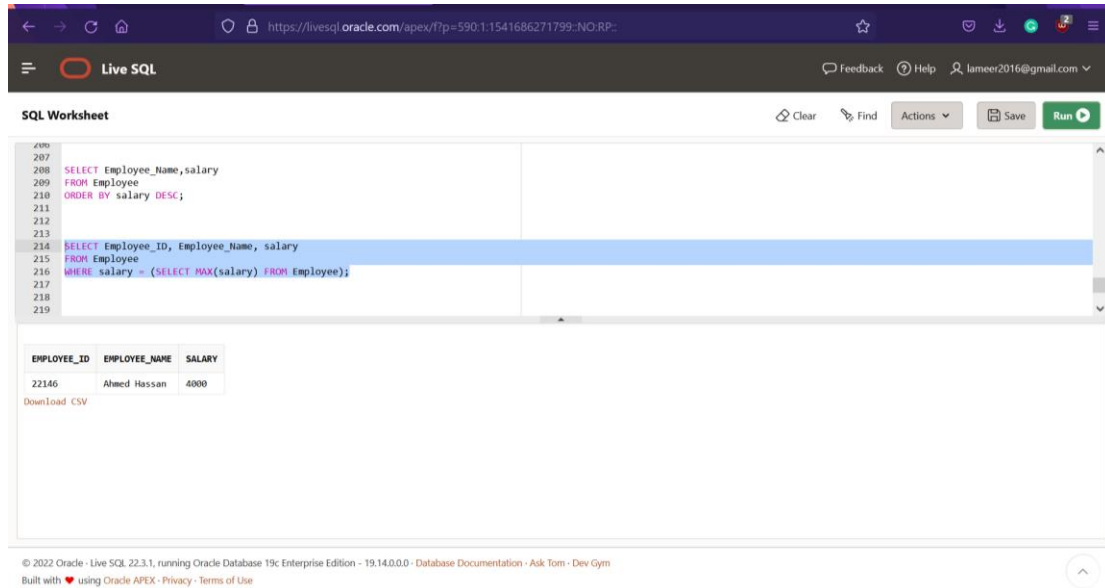
At the bottom of the page, the footer text reads: "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym".

SELECT Employee\_Name,salary

FROM Employee

ORDER BY salary DESC;

## (Using Subquery)



The screenshot shows the Live SQL interface in a web browser. The URL is <https://livesql.oracle.com/apex/f?p=590:1-1541686271799::NO:RP::>. The page title is "Live SQL". The "SQL Worksheet" section contains the following SQL code:

```
207  
208 SELECT Employee_Name, salary  
209 FROM Employee  
210 ORDER BY salary DESC;  
211  
212  
213  
214 SELECT Employee_ID, Employee_Name, salary  
215 FROM Employee  
216 WHERE salary = (SELECT MAX(salary) FROM Employee);  
217  
218  
219
```

The results of the second query are displayed in a table:

EMPLOYEE_ID	EMPLOYEE_NAME	SALARY
22146	Ahmed Hassan	4000

Below the table is a "Download CSV" link. The footer of the page includes the following text:

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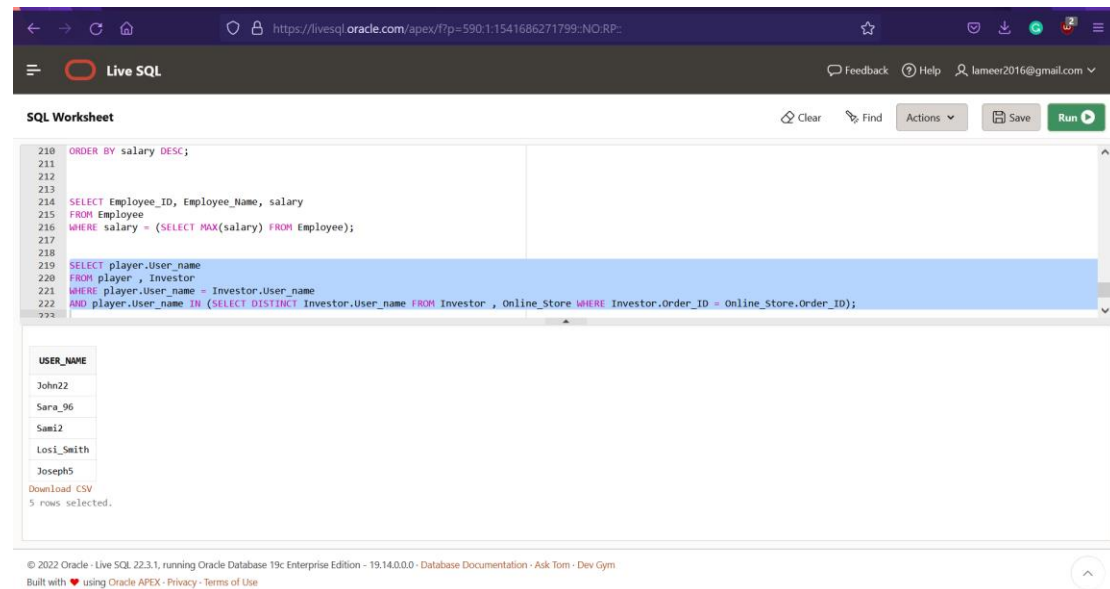
SELECT Employee\_ID, Employee\_Name, salary

FROM Employee

WHERE salary = (SELECT MAX(salary) FROM Employee);



## (Using Subquery)



The screenshot shows the Live SQL interface in a web browser. The URL is <https://livesql.oracle.com/apex/f?p=590:1-1541686271799::NO:RP::>. The page title is "Live SQL". The "SQL Worksheet" section contains the following SQL query:

```
210 ORDER BY salary DESC;
211
212
213
214 SELECT Employee_ID, Employee_Name, salary
215 FROM Employee
216 WHERE salary = (SELECT MAX(salary) FROM Employee);
217
218
219 SELECT player.User_name
220 FROM player , Investor
221 WHERE player.User_name = Investor.User_name
222 AND player.User_name IN (SELECT DISTINCT Investor.User_name FROM Investor , Online_Store WHERE Investor.Order_ID = Online_Store.Order_ID);
223
```

The results of the query are displayed in a table with the following data:

USER_NAME
John22
Sara_96
Sam12
Losi_Smith
Joseph5

Download CSV  
5 rows selected.

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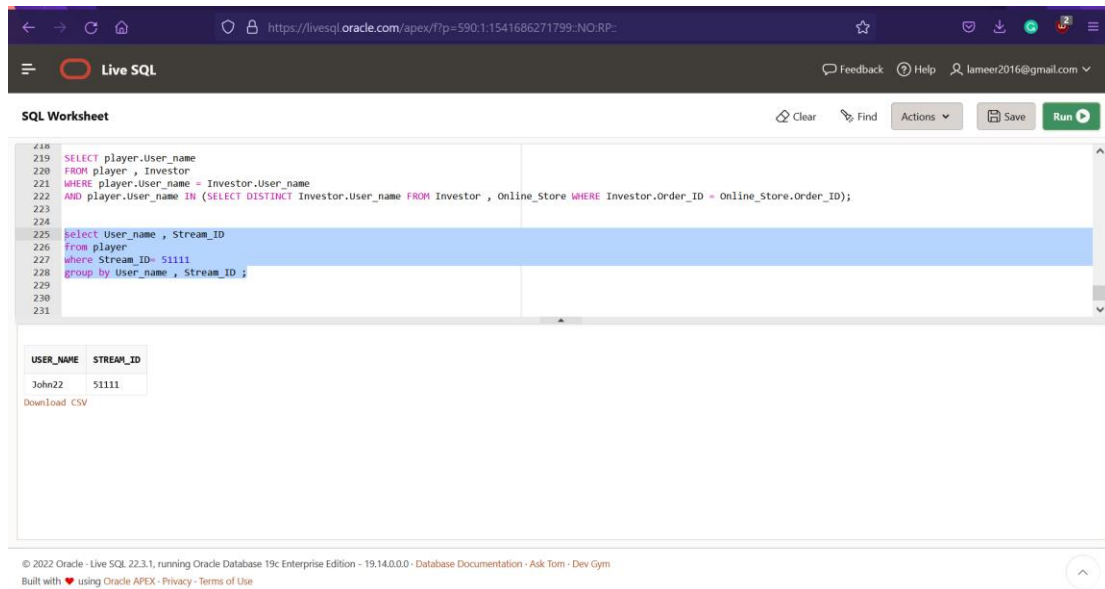
SELECT player.User\_name

FROM player , Investor

WHERE player.User\_name = Investor.User\_name

AND player.User\_name IN (SELECT DISTINCT Investor.User\_name FROM Investor ,  
Online\_Store WHERE Investor.Order\_ID = Online\_Store.Order\_ID);

(Using Group BY Query)



The screenshot shows the Live SQL interface in a web browser. The address bar displays the URL: `https://livesql.oracle.com/apex/f?p=590:1:1541686271799::NO:RP::`. The page title is "Live SQL". The "SQL Worksheet" section contains the following SQL query:

```
218 SELECT player.User_name
219 FROM player , Investor
220 WHERE player.User_name = Investor.User_name
221 AND player.User_name IN (SELECT DISTINCT Investor.User_name FROM Investor , Online_Store WHERE Investor.Order_ID = Online_Store.Order_ID);
222
223
224
225 Select User_name , Stream_ID
226 from player
227 where Stream_ID= 51111
228 group by User_name , Stream_ID ;
229
230
231
```

The results of the query are displayed in a table with two columns: **USER\_NAME** and **STREAM\_ID**. The table contains one row of data:

USER_NAME	STREAM_ID
John22	51111

Below the table, there is a link to "Download CSV". The footer of the page indicates: "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym. Built with ❤️ using Oracle APEX - Privacy - Terms of Use".

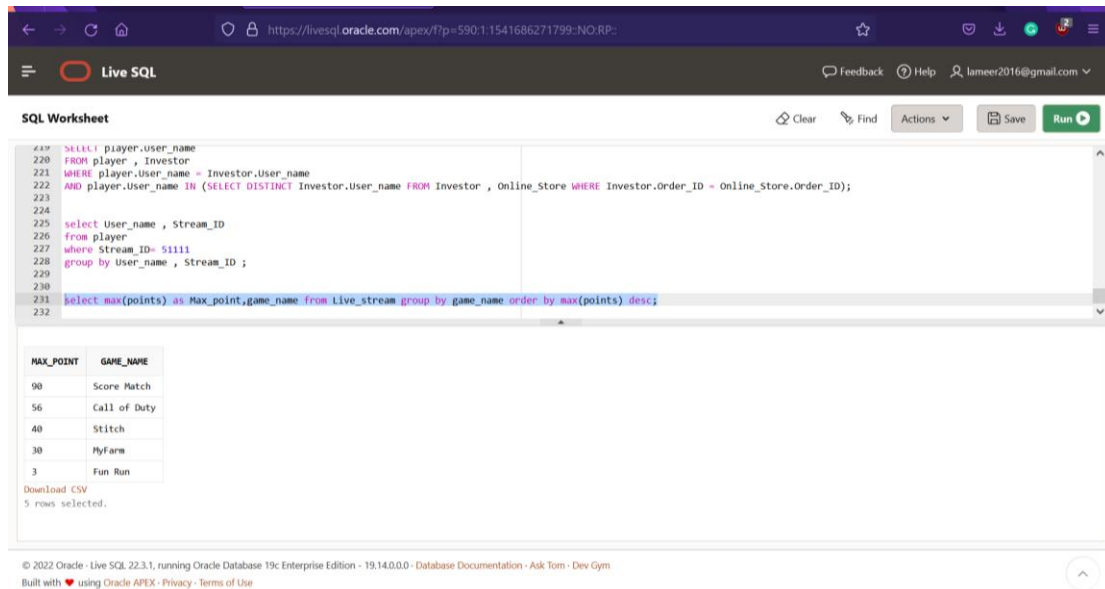
Select User\_name , Stream\_ID

from player

where Stream\_ID= 51111

group by User\_name , Stream\_ID ;

(Using Aggregate function)



The screenshot shows the Live SQL web interface. The SQL Worksheet contains the following query:

```
219 SELECT player.user_name
220 FROM player , Investor
221 WHERE player.user_name = Investor.user_name
222 AND player.user_name IN (SELECT DISTINCT Investor.user_name FROM Investor , Online_Store WHERE Investor.order_ID = Online_Store.order_ID);
223
224
225 select User_name , Stream_ID
226 from player
227 where Stream_ID= 51111
228 group by User_name , Stream_ID ;
229
230
231 select max(points) as Max_point,game_name from Live_stream group by game_name order by max(points) desc;
232
```

The results are displayed in a table with 5 rows selected:

MAX_POINT	GAME_NAME
90	Score Match
56	Call of Duty
40	Stitch
30	MyFarm
3	Fun Run

Below the table, it says "Download CSV" and "5 rows selected."

At the bottom, the footer reads: "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym. Built with ♥ using Oracle APEX - Privacy - Terms of Use".

Select max(points) as Max\_point,game\_name from Live\_stream group by game\_name order by max(points) desc;

## (Using join Query)

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `https://livesql.oracle.com/apex/?p=590:1:13181246342218:NO:RP:-`. The page title is "Live SQL". The "SQL Worksheet" section contains the following SQL query:

```
224
225 Select User_name , Stream_ID
226 from player
227 where Stream_ID= 51111
228 group by User_name , Stream_ID ;
229
230
231 Select max(points) as Max_point,game_name from Live_stream group by game_name order by max(points) desc;
232
233 SELECT Supplier_name
234 FROM Supplier ,Game
235 WHERE Supplier.Supplier_ID = Game.Supplier_ID
236 ORDER BY Supplier_name;
237
238
239
```

The query results are displayed in a table with the following data:

SUPPLIER_NAME
Activision
Capcom
Nintendo
Sega
Sony

Below the table, it says "Download CSV" and "5 rows selected." The footer of the page includes the copyright information: "© 2022 Oracle - Live SQL 22.3.1, running Oracle Database 19c Enterprise Edition - 19.14.0.0.0 - Database Documentation - Ask Tom - Dev Gym" and a note: "Built with ♥ using Oracle APEX - Privacy - Terms of Use".

```
SELECT Supplier_name
FROM Supplier ,Game
WHERE Supplier.Supplier_ID = Game.Supplier_ID
ORDER BY Supplier_name;
```