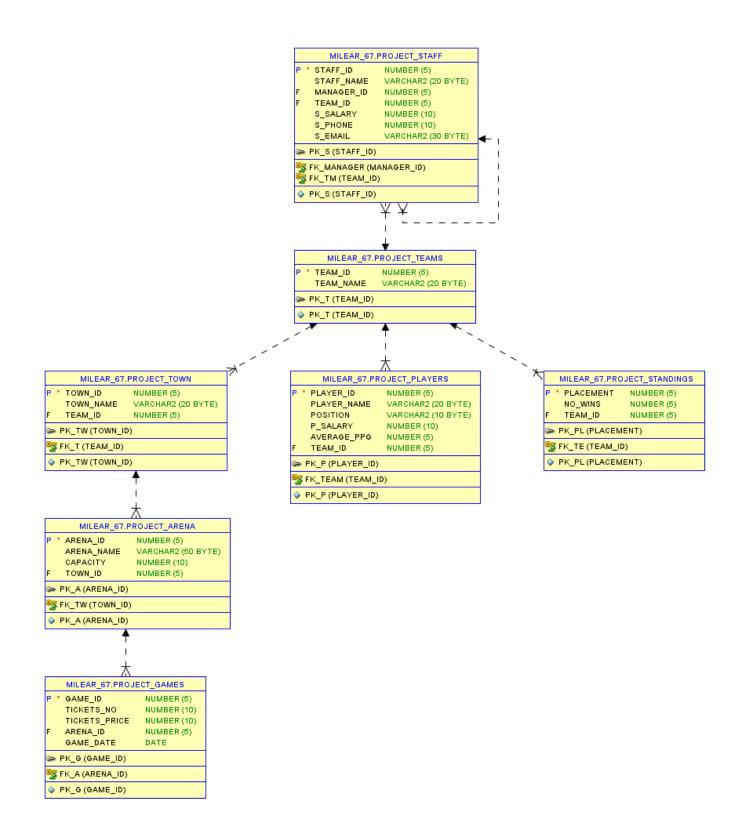
Database Project

(Basketball)

Milea Robert 1067



I. INTRODUCTION

```
ALTER TABLE PROJECT ARENA MODIFY ( arena name varchar2(50));
      INSERT INTO PROJECT_ARENA values(1, 'Crypto.com Arena', 20000,
     INSERT INTO PROJECT_ARENA values (2, 'Staples Center', 30000, 1)
     INSERT INTO PROJECT_ARENA values (3, 'Footprint Center', 18000,
      INSERT INTO PROJECT_ARENA values (4, 'The United Center', 22000,
      INSERT INTO PROJECT_ARENA values (5, 'American Airlines Center',
     INSERT INTO PROJECT ARENA values (6, 'Madison Square Garden', 19
Script Output X Query Result X
📌 🥔 🖥 🚇 📦 | Task completed in 0,051 seconds
ORA-01735: invalid ALTER TABLE option
01735. 00000 - "invalid ALTER TABLE option"
*Cause:
*Action:
Error starting at line : 87 in command -
ALTER PROJECT_ARENA MODIFY ( arena_name varchar2(50))
Error report -
ORA-00940: invalid ALTER command
00940. 00000 - "invalid ALTER command"
*Cause:
*Action:
Table PROJECT ARENA altered.
```

II. CREATE AND INSERT

```
CREATE TABLE project_TEAMS (
team_id NUMBER(5) constraint PK_T
primary key,
team_name VARCHAR2(20)
);
```

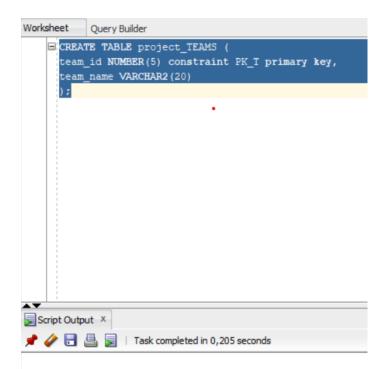


Table PROJECT_TEAMS created.

```
CREATE TABLE project_TOWN (
town_id NUMBER(5) constraint PK_TW
primary key,
town_name VARCHAR2(20),
team_id NUMBER(5),
constraint FK_T foreign key(team_id)
references project_TEAMS
);
```

```
CREATE TABLE project_TOWN (
     town_id NUMBER(5) constraint PK_TW primary key,
     town_name VARCHAR2(20),
     team_id NUMBER(5),
     constraint FK_T foreign key(team_id) references project_TEAMS
Script Output X
📌 🧽 🔡 🚇 📓 | Task completed in 0,09 seconds
error starting at line : I in command
CREATE TABLE proj_TOWN (
town_id NUMBER(5) constraint PK_TW primary key,
town_name VARCHAR2(20),
team_id NUMBER(5),
constraint FK_T foreign key(team_id) references proj_TEAMS
ORA-00942: table or view does not exist
00942. 00000 - "table or view does not exist"
*Cause:
*Action:
Table PROJECT_TOWN created.
```

```
CREATE TABLE project ARENA (
      arena_id NUMBER(5) constraint PK_A primary key,
      arena_name VARCHAR2(20),
      capacity NUMBER (10),
      town_id NUMBER(5),
      constraint FK_TW foreign key(town_id) references project_TOWN
Script Output X
📌 🧳 🔒 遏 | Task completed in 0,076 seconds
town name VARCHARZ(ZU),
team id NUMBER(5),
constraint FK_T foreign key(team_id) references proj_TEAMS
Error report -
ORA-00942: table or view does not exist
00942. 00000 - "table or view does not exist"
*Cause:
*Action:
Table PROJECT_TOWN created.
Table PROJECT_ARENA created.
```

CREATE TABLE project_ARENA (
arena_id NUMBER(5) constraint
PK_A primary key,
arena_name VARCHAR2(20),
capacity NUMBER(10),
town_id NUMBER(5),
constraint FK_TW foreign
key(town_id) references
project_TOWN
);

```
CREATE TABLE project_GAMES (
game_id NUMBER(5) constraint
PK_G primary key,
tickets_no NUMBER(10),
tickets_price NUMBER(10),
arena_id NUMBER(5),
constraint FK_A foreign
key(arena_id) references
project_ARENA
);
```

```
CREATE TABLE project_GAMES (
      game_id NUMBER(5) constraint PK_G primary key,
     tickets_no NUMBER(10),
     tickets price NUMBER(10),
     arena_id NUMBER(5),
      constraint FK_A foreign key(arena_id) references project_ARENA
Script Output X
📌 🧳 🖥 🖺 📘 | Task completed in 0,074 seconds
Error report -
ORA-00942: table or view does not exist
00942. 00000 - "table or view does not exist"
*Cause:
*Action:
Table PROJECT_TOWN created.
Table PROJECT_ARENA created.
Table PROJECT GAMES created.
```

```
CREATE TABLE project STAFF
     staff_id NUMBER(5) CONSTRAINT pk_S PRIMARY KEY,
     staff_name VARCHAR2(20),
     manager_id NUMBER(5),
     team id NUMBER(5),
     CONSTRAINT fk TM FOREIGN KEY(team id) REFERENCES PROJECT TEAMS(team id),
     CONSTRAINT fk manager FOREIGN KEY(manager id) REFERENCES PROJECT STAFF(staff id)
     );
Script Output X
📌 🤌 🔒 💂 🔋 | Task completed in 0,099 seconds
starr_id numbek(5) constraint pk_5 PRIMARY KEY,
staff name VARCHAR2(20) UNIQUE,
manager id NUMBER(5),
team_id NUMBER(5),
CONSTRAINT fk_T FOREIGN KEY(team_id) REFERENCES PROJECT_TEAMS(team_id),
CONSTRAINT fk_manager FOREIGN KEY(manager_id) REFERENCES PROJECT_STAFF(staff_id)
Error report -
ORA-02264: name already used by an existing constraint
02264. 00000 - "name already used by an existing constraint"
*Cause: The specified constraint name has to be unique.
*Action: Specify a unique constraint name for the constraint.
Table PROJECT_STAFF created.
```

```
CREATE TABLE project_STAFF (

staff_id NUMBER(5) CONSTRAINT pk_S PRIMARY KEY,

staff_name VARCHAR2(20),

manager_id NUMBER(5),

team_id NUMBER(5),

CONSTRAINT fk_TM FOREIGN KEY(team_id) REFERENCES PROJECT_TEAMS(team_id),

CONSTRAINT fk_manager FOREIGN KEY(manager_id) REFERENCES

DDOJECT_STAEE(staff_id)
```

```
ALTER TABLE PROJECT STAFF ADD (
      s salary NUMBER (10),
      s phone NUMBER(10),
      s_email VARCHAR2(30)
      );
Script Output X
📌 🥒 🔚 💂 📄 | Task completed in 0,08 seco
team_id NUMBER(5),
CONSTRAINT fk_T FOREIGN KEY(team_id) F
CONSTRAINT fk_manager FOREIGN KEY(mana
Error report -
ORA-02264: name already used by an exi
02264. 00000 - "name already used by
         The specified constraint na
*Action: Specify a unique constraint
Table PROJECT_STAFF created.
Table PROJECT_STAFF altered.
```

```
ALTER TABLE PROJECT_STAFF ADD (

s_salary NUMBER(10),

s_phone NUMBER(10),

s_email VARCHAR2(30)
);
```

(ALTER TABLE)

```
CREATE TABLE project_PLAYERS (

player_id NUMBER(5)

CONSTRAINT PK_P PRIMARY KEY,

player_name VARCHAR2(20),

position VARCHAR2(10),

p_salary NUMBER(10),

average_ppg NUMBER(5),

team_id NUMBER(5),

CONSTRAINT fk_TEAM FOREIGN

KEY(team_id) REFERENCES

PROJECT_TEAMS(team_id)

);
```

```
CREATE TABLE project_PLAYERS (
     player_id NUMBER(5) CONSTRAINT PK_P PRIMARY KEY,
     player_name VARCHAR2(20),
     position VARCHAR2(10),
     p_salary NUMBER(10),
     average_ppg NUMBER(5),
     team_id NUMBER(5),
     CONSTRAINT fk_TEAM FOREIGN KEY(team_id) REFERENCES PROJECT_TEAMS(team_id)
Script Output X
📌 🧽 🔡 📕 | Task completed in 0,084 seconds
Error report -
ORA-02264: name already used by an existing constraint
02264. 00000 - "name already used by an existing constraint"
*Cause: The specified constraint name has to be unique.
*Action: Specify a unique constraint name for the constraint.
Table PROJECT_STAFF created.
Table PROJECT_STAFF altered.
Table PROJECT_PLAYERS created.
```

```
CREATE TABLE project_STANDINGS (
     placement NUMBER(5) CONSTRAINT PK_PL PRIMARY KEY,
     no wins NUMBER (5),
     team id NUMBER(5),
     CONSTRAINT fk_TE FOREIGN KEY(team_id) REFERENCES PROJECT_TEAMS(team_id)
                                                                                  CREATE TABLE
                                                                                  project_STANDINGS (
                                                                                  placement NUMBER(5)
                                                                                  CONSTRAINT PK_PL PRIMARY
Script Output X
                                                                                  KEY,
📌 🧼 🔒 💂 📗 | Task completed in 0,207 seconds
Error starting at line : 50 in command
                                                                                  no_wins NUMBER(5),
CREATE TABLE project_STANDINGS (
placement NUMBER(5) CONSTRAINT PK PL PRIMARY KEY,
                                                                                  team_id NUMBER(5),
no_wins NUMBER(5),
team_id NUMBER(5),
                                                                                  CONSTRAINT fk_TE FOREIGN
CONSTRAINT fk_TEAM FOREIGN KEY(team_id) REFERENCES PROJECT_TEAMS(team_id)
                                                                                  KEY(team_id) REFERENCES
Error report -
                                                                                  PROJECT_TEAMS(team_id)
ORA-02264: name already used by an existing constraint
02264. 00000 - "name already used by an existing constraint"
                                                                                  );
*Cause: The specified constraint name has to be unique.
*Action: Specify a unique constraint name for the constraint.
Table PROJECT STANDINGS created.
```

```
INSERT INTO PROJECT TEAMS values(1, 'Los Angeles Lakers');
                                        INSERT INTO PROJECT TEAMS values (2, 'Phoenix Suns');
                                        INSERT INTO PROJECT_TEAMS values(3, 'Dallas Mavericks');
      INSERT INTO
                                        INSERT INTO PROJECT_TEAMS values(4, 'Memphis Grizzlies');
PROJECT_TEAMS values(1,
  'Los Angeles Lakers');
      INSERT INTO
                                  Script Output X
PROJECT_TEAMS values(2,
     'Phoenix Suns');
                                  📌 🤌 🔚 🚇 🥃 | Task completed in 0,075 seconds
      INSERT INTO
                                  4 rows deleted.
PROJECT_TEAMS values(3,
   'Dallas Mavericks');
                                  l row inserted.
      INSERT INTO
PROJECT TEAMS values(4,
                                  1 row inserted.
  'Memphis Grizzlies');
                                  1 row inserted.
                                  1 row inserted.
```

(DELETE ONE TEAM)

DELETE FROM PROJECT_TEAMS where team_id = 4;

```
SELECT* FROM PROJECT_TEAMS where team_id = 4;

SELECT* FROM PROJECT_TEAMS;

Script Output × Query Result ×

Query Result ×

Task completed in 0,066 seconds

Error starting at line : 71 in command -
INSERT INTO PROJECT_TEAMS values(3, 'Dallas Mavericks')
Error report -
ORA-00001: unique constraint (MILEAR_67.PK_T) violated

Error starting at line : 72 in command -
INSERT INTO PROJECT_TEAMS values(4, 'Memphis Grizzlies')
Error report -
ORA-00001: unique constraint (MILEAR_67.PK_T) violated

1 row deleted.
```

```
INSERT INTO PROJECT_TOWN values(1, 'Los Angeles', 1);
INSERT INTO PROJECT_TOWN values(2, 'Phoenix', 2);
INSERT INTO PROJECT_TOWN values(3, 'Dallas', 3);

Script Output * Query Result *

Query Result *

Task completed in 0,443 seconds

Error at Command Line: 81 Column: 36

Error report -

SQL Error: ORA-00984: column not allowed here

00984. 00000 - "column not allowed here"

*Cause:
*Action:

1 row inserted.

1 row inserted.
```

INSERT INTO PROJECT_TOWN values(1, 'Los Angeles', 1);
INSERT INTO PROJECT_TOWN values(2, 'Phoenix', 2);
INSERT INTO PROJECT_TOWN values(3, 'Dallas', 3);

(ALTER TABLE FOR ARENA)

```
ALTER TABLE PROJECT ARENA MODIFY ( arena name varchar2(50));
     INSERT INTO PROJECT ARENA values (1, 'Crypto.com Arena', 20000,
     INSERT INTO PROJECT ARENA values (2, 'Staples Center', 30000, 1)
     INSERT INTO PROJECT_ARENA values (3, 'Footprint Center', 18000,
     INSERT INTO PROJECT ARENA values (4, 'The United Center', 22000,
     INSERT INTO PROJECT_ARENA values (5, 'American Airlines Center',
      INSERT INTO PROJECT ARENA values (6, 'Madison Square Garden', 19
Script Output X Query Result X
📌 🥜 闭 🖺 舅 | Task completed in 0,051 seconds
ORA-01735: invalid ALTER TABLE option
01735. 00000 - "invalid ALTER TABLE option"
*Cause:
*Action:
Error starting at line : 87 in command -
ALTER PROJECT ARENA MODIFY ( arena name varchar2(50))
Error report -
ORA-00940: invalid ALTER command
00940. 00000 - "invalid ALTER command"
*Cause:
*Action:
Table PROJECT ARENA altered.
```

```
ALTER TABLE PROJECT_ARENA MODIFY ( arena_name varchar2(50));
INSERT INTO PROJECT_ARENA values(1, 'Crypto.com Arena', 20000, 1);
INSERT INTO PROJECT_ARENA values(2, 'Staples Center', 30000, 1);
INSERT INTO PROJECT_ARENA values(3, 'Footprint Center', 18000, 2);
INSERT INTO PROJECT_ARENA values(4, 'The United Center', 22000, 2);
INSERT INTO PROJECT_ARENA values(5, 'American Airlines Center', 25000, 3);
INSERT INTO PROJECT_ARENA values(6, 'Madison Square Garden', 19000, 3);
```

```
INSERT INTO PROJECT_GAMES values(1, 18440, 200, 1);
INSERT INTO PROJECT_GAMES values(2, 28900, 300, 2);
INSERT INTO PROJECT_GAMES values(3, 29440, 300, 2);
INSERT INTO PROJECT_GAMES values(4, 17200, 150, 3);
INSERT INTO PROJECT_GAMES values(5, 20300, 200, 4);
INSERT INTO PROJECT_GAMES values(5, 20300, 250, 5);

Script Output × Query Result ×

PORTOGRAPH OUTPUT OF PROJECT_GAMES values(6, 23500, 250, 5);

Task completed in 0,449 seconds

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

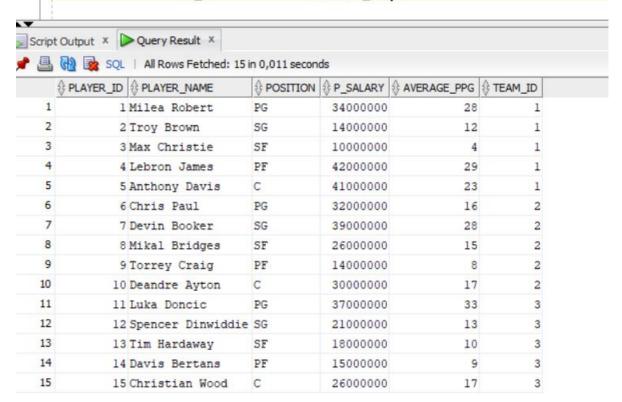
1 row inserted.
```

```
INSERT INTO PROJECT_GAMES values(1, 18440, 200, 1);
INSERT INTO PROJECT_GAMES values(2, 28900, 300, 2);
INSERT INTO PROJECT_GAMES values(3, 29440, 300, 2);
INSERT INTO PROJECT_GAMES values(4, 17200, 150, 3);
INSERT INTO PROJECT_GAMES values(5, 20300, 200, 4);
INSERT INTO PROJECT_GAMES values(6, 23500, 250, 5);nter', 22000, 2);
INSERT INTO PROJECT_ARENA values(5, 'American Airlines Center', 25000, 3);
INSERT INTO PROJECT_ARENA values(6, 'Madison Square Garden', 19000, 3);
```

```
INSERT INTO PROJECT_STAFF values(1, 'Jack Black', NULL, 1, 5000, 075344313, 'jackblack@gmail.com');
     INSERT INTO PROJECT_STAFF values(2, 'Dwayne Wade', NULL, 2, 6000, 0775349543, 'dwaynewade@gmail.com');
     INSERT INTO PROJECT_STAFF values(3, 'Kevin Hart', NULL, 3, 5500, 0736894654, 'kevvv@gmail.com');
     INSERT INTO PROJECT_STAFF values(4, 'Kevin Johnson', 2, 2, 2000, 0795346842, 'johnykev@yahoo.com');
     INSERT INTO PROJECT_STAFF values(5, 'John Wayne', 2, 2, 3000, 0758838431, 'wildwayne@gmail.com');
     INSERT INTO PROJECT_STAFF values(6, 'Harry Wang', 1, 1, 2200, 0778325498, 'wanggang@gmail.com');
     INSERT INTO PROJECT_STAFF values(7, 'Harry Kane', 1, 1, 2900, 0788653424, 'harryscholes@gmail.com');
     INSERT INTO PROJECT_STAFF values(8, 'Bobby Johnson', 3, 3, 1900, 0767341895, 'bobbyj@gmail.com');
     INSERT INTO PROJECT_STAFF values(9, 'Stan Lee', 3, 3, 3000, 0747853296, 'stanlee@gmail.com');
Script Output X Query Result X
📌 🧳 🔡 💂 📘 | Task completed in 0,165 seconds
1 row inserted.
1 row inserted.
1 row inserted.
1 row inserted.
l row inserted.
1 row inserted.
         INSERT INTO PROJECT STAFF values(1, 'Jack Black', NULL, 1, 5000, 075344313,
         'jackblack@gmail.com');
         INSERT INTO PROJECT_STAFF values(2, 'Dwayne Wade', NULL, 2, 6000, 0775349543,
         'dwaynewade@gmail.com');
         INSERT INTO PROJECT_STAFF values(3, 'Kevin Hart', NULL, 3, 5500, 0736894654,
         'kevvv@gmail.com');
         INSERT INTO PROJECT_STAFF values(4, 'Kevin Johnson', 2, 2, 2000, 0795346842,
         'johnykev@yahoo.com');
         INSERT INTO PROJECT_STAFF values(5, 'John Wayne', 2, 2, 3000, 0758838431,
         'wildwayne@gmail.com');
         INSERT INTO PROJECT_STAFF values(6, 'Harry Wang', 1, 1, 2200, 0778325498,
         'wanggang@gmail.com');
         INSERT INTO PROJECT_STAFF values(7, 'Harry Kane', 1, 1, 2900, 0788653424,
         'harryscholes@gmail.com');
         INSERT INTO PROJECT_STAFF values(8, 'Bobby Johnson', 3, 3, 1900, 0767341895,
         'bobbyj@gmail.com');
         INSERT INTO PROJECT_STAFF values(9, 'Stan Lee', 3, 3, 3000, 0747853296,
         'stanlee@gmail.com');
```

```
INSERT INTO PROJECT_PLAYERS values(1, 'Milea Robert', 'PG', 34000000, 28, 1);
INSERT INTO PROJECT_PLAYERS values(2, 'Troy Brown', 'SG', 14000000, 12, 1);
INSERT INTO PROJECT_PLAYERS values(3, 'Max Christie', 'SF', 10000000, 4, 1);
INSERT INTO PROJECT_PLAYERS values(4, 'Lebron James', 'PF', 42000000, 29, 1);
INSERT INTO PROJECT_PLAYERS values(5, 'Anthony Davis', 'C', 41000000, 23, 1);
INSERT INTO PROJECT_PLAYERS values(6, 'Chris Paul', 'PG', 32000000, 16, 2);
INSERT INTO PROJECT_PLAYERS values(7, 'Devin Booker', 'SG', 39000000, 28, 2);
INSERT INTO PROJECT_PLAYERS values(8, 'Mikal Bridges', 'SF', 26000000, 15, 2);
INSERT INTO PROJECT_PLAYERS values(9, 'Torrey Craig', 'PF', 14000000, 8, 2);
INSERT INTO PROJECT_PLAYERS values(10, 'Deandre Ayton', 'C', 30000000, 17, 2);
INSERT INTO PROJECT_PLAYERS values(11, 'Luka Doncic', 'PG', 37000000, 33, 3);
INSERT INTO PROJECT_PLAYERS values(12, 'Spencer Dinwiddie', 'SG', 21000000, 13, 3);
INSERT INTO PROJECT_PLAYERS values(13, 'Tim Hardaway', 'SF', 18000000, 10, 3);
INSERT INTO PROJECT_PLAYERS values(14, 'Davis Bertans', 'PF', 15000000, 9, 3);
INSERT INTO PROJECT_PLAYERS values(15, 'Christian Wood', 'C', 26000000, 17, 3);
```

SELECT* FROM PROJECT_PLAYERS ORDER BY player_id;



```
INSERT INTO PROJECT_STANDINGS values(1, 32, 1);
     INSERT INTO PROJECT_STANDINGS values (2, 30, 3);
     INSERT INTO PROJECT_STANDINGS values (3, 29, 2);
Script Output X Query Result X
📌 🤌 🔒 💂 🔋 | Task completed in 0,039 seconds
*Action:
Error starting at line : 133 in command -
INSERT INTO PROJECT PLAYERS values (12, 'Spencer Dinwiddie', 'SG'
Error at Command Line : 133 Column : 66
Error report -
SQL Error: ORA-00917: missing comma
00917. 00000 - "missing comma"
*Cause:
*Action:
1 row inserted.
1 row inserted.
l row inserted.
```

```
INSERT INTO PROJECT_STANDINGS values(1, 32, 1);
INSERT INTO PROJECT_STANDINGS values(2, 30, 3);
INSERT INTO PROJECT_STANDINGS values(3, 29, 2);
```

III. Exercises

1. A select that shows the player's salaries <20000000

```
SELECT player_name, p_salary from PROJECT_PLAYERS
where player_name like '%James%';

Script Output × Query Result ×

Script Output × Query Result ×

P All Rows Fetched: 1 in 0,011 seconds

PLAYER_NAME P_SALARY

1 Lebron James 42000000
```

2. Show the salary of employees with 'James' in their name

```
Script Output × Query Result ×

Script Output × Query Result ×

Script Output × P_SALARY

Davis Bertans 15000000

Max Christie 10000000

Tim Hardaway 18000000

Troy Brown 14000000

Troy Brown 14000000
```

3. Show Managers

```
SELECT staff_name AS Managers FROM PROJECT_STAFF
where manager_id IS NULL;

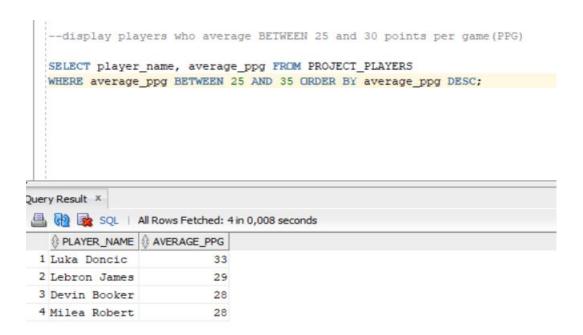
Script Output × Query Result ×

Script Output × Query Result ×

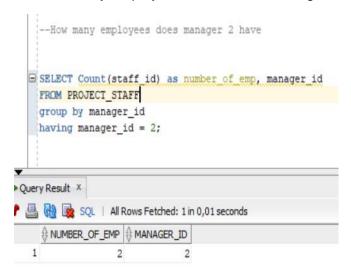
MANAGERS

1 Jack Black
2 Dwayne Wade
3 Kevin Lavine
```

4. Select players with points per game between 25 and 35



5. How many employees does the 2nd manager have



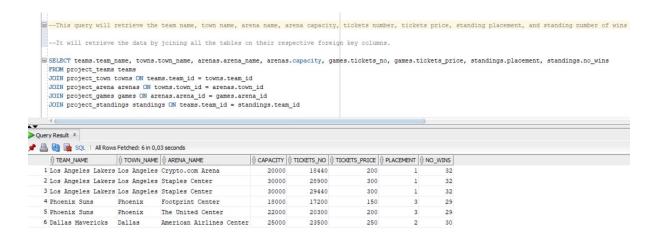
6. Find player with average points per game greater than ANY other players



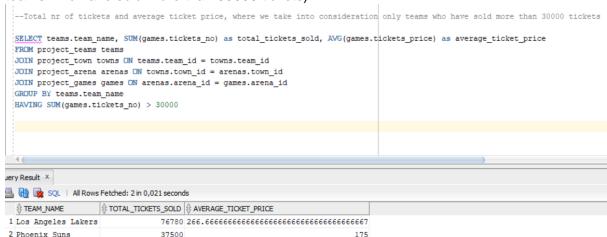
7. Case to sort the type of salary



8. Game night simulation



9. Compute total number of tickets and average ticket price (take into consideration only teams who have sold more than 30000 tickets)



10. Add game dates to PROJECT_GAMES table

```
--adding game_dates to my games table
      ALTER TABLE project_games
     ADD game_date DATE;
      UPDATE project_games
      SET game_date = '05-jan-2022'
      WHERE game_id = 1;
      UPDATE project games
      SET game_date = '09-jan-2022'
      WHERE game_id = 2;
     UPDATE project_games
      SET game_date = '24-jun-2022'
WHERE game_id = 3;
     UPDATE project_games
Query Result × Script Output ×
📌 🧽 🔡 遏 | Task completed in 0,951 seconds
1 row updated.
1 row updated.
1 row updated.
1 row updated.
```

11. Show the team name, arena name and the newly formatted dates

```
--using TO_CHAR to change the format of our dates and show the team name, arena name and new game date

SELECT teams.team_name, arenas.arena_name, TO_CHAR(games.game_date, 'yyyyy-mon-dd') as game_date

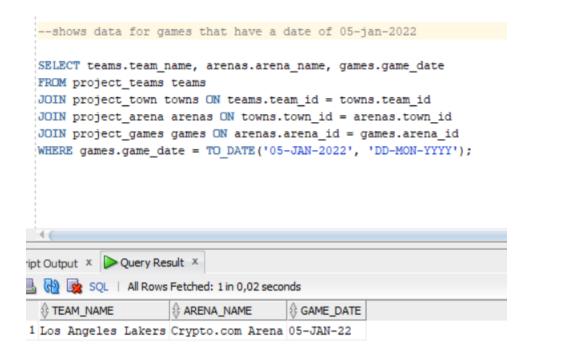
FROM project_teams teams

JOIN project_town towns ON teams.team_id = towns.team_id

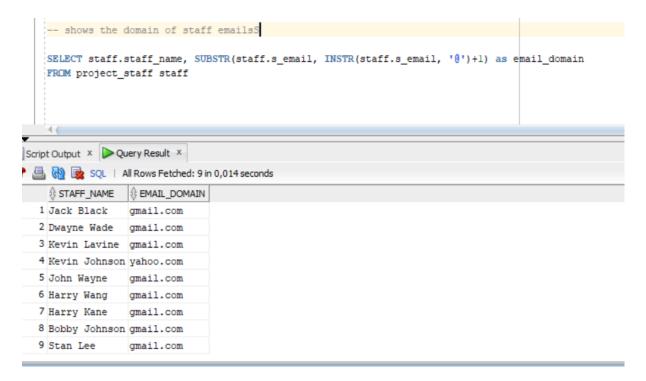
JOIN project_arena arenas ON towns.town_id = arenas.town_id

JOIN project_games games ON arenas.arena_id = games.arena_id
```

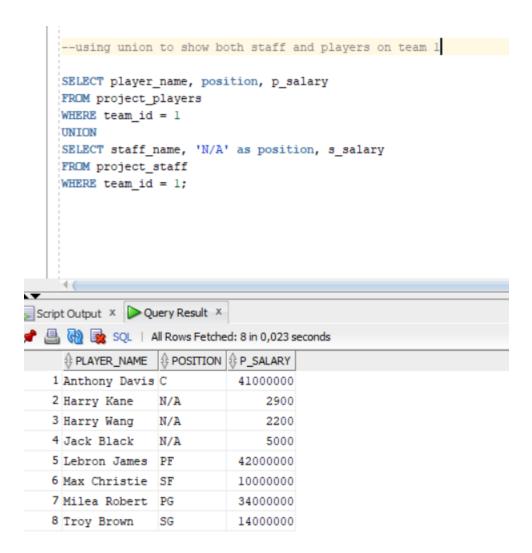
12. Show the data from games played on 05-jan-2022



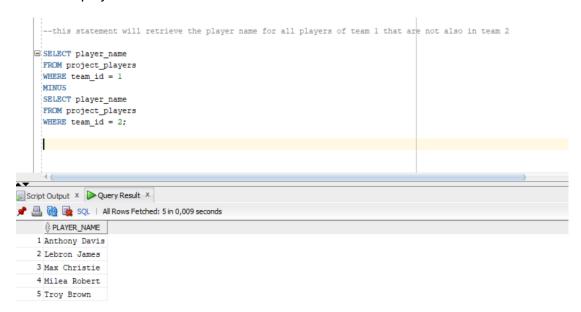
13. Show domain and staff e-mail



14. Show team 1 staff and players simultaneously



15. Show players in team 1 that are not in team 2



16. Intersect team 1 player names with team 2 player names

```
--intersecting team 1 player names with team 2 player names

SELECT player_name
FROM project_players
WHERE team_id = 1
INTERSECT
SELECT player_name
FROM project_players
WHERE team_id = 2;

Script Output x Query Result x

PLAYER_...
```

17. Order Staff by authority

