IRC_RDBMS_D3_DDL_CE_COD

Test Summary

No. of Sections: 1No. of Questions: 5Total Duration: 50 min

Section 1 - Commands

Section Summary

No. of Questions: 5Duration: 50 min

Additional Instructions:

None

Q1. Write a query to create a table **employees** .as per below given details.

Note:

- 1. Make sure to apply **NOT NULL** and Primary Key (PK) condition for the columns where ever applicable.
- 2. While creating a table, table name and column name should be exactly same as given in DDL (including upper/lower case)

Table name: employees

Column Name	Data Type	Can be Nullable?
employee_id (PK)	int	No
first_name	varchar(25)	No
last_name	varchar(25)	No
email	varchar(25)	No
phone_number	varchar(20)	No
hire_date	date	No
job_id	varchar(10)	Yes
salary	decimal(8,2)	No
commission_pct	int	Yes
manager_id	int	Yes
department_id	int	Yes

Sample Input Sample Output

eld Type Null Key Default Extra
loyee_id int(11) NO PRI NULL
st_name varchar(25) NO NULL

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. From the table schema given below, write a query to create a table **tracks**. (Follow the same table names/column names as given along with the case)

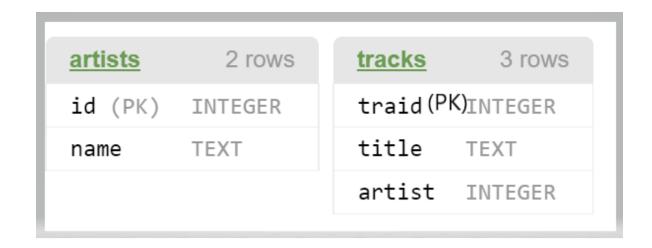
The **artists** table is already created with primary key as **id**.

Note:

In **tracks** table, **traid** is the Primary key and **artist** is the Foreign Key referencing id of artists table.

While creating tracks table,

- traid is the Primary Key
- define the foreign key relation between 2 tables.
- define all the columns with NOT NULL condition



Input Format

The artists table is created in the backend.

Sample Input Sample Output

TABLE_NAME COLUMN_NAME CONSTRAINT_NAME tracks traid PRIMARY NULL NULL tracks artist tracks_ibfk_1 artists id

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q3. From the DDL given below,

Write a query to create a table "facilities"

Hint: Refer the table for the field names and its data type of the table.

Table name: facilities

Column Name	Data Type	Can be Nullable?
facid(PK)	int	No
name	varchar(100)	No
membercost	int	No
guestcost	int	No
initialoutlay	int	Yes
monthlymaintenance	int	Yes

Note:

- 1. Make sure to apply NOT NULL and Primary Key (PK) condition for the columns where ever applicable.
- 2. While creating a table, table name and column name should be exactly same as given in DDL (including upper/lower case)

Sample Input

Sample Output

	facid	Type int(11) varchar	NO	PRI	Default Extra NULL NULL
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Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q4. Write a query to change the column name **zipcode** to **pincode** in members table.

Table name: members

Column Name	Data Type	Can be Nullable?
memid(PK)	int	No
surname	varchar(200)	No
firstname	varchar(200)	No
address	varchar(300)	No
zipcode	int	No
telephone	varchar(20)	No
recommendedby	int	Yes
joindate	varchar(10)	No

The members table is already created.	
Sample Input	Sample Output
	COLUMN_NAME memid surname finctname
Time Limit: - ms Memory Limit: - kb Code Size: - kb	
Q5. Write a query to drop the table facilities	
Input Format	
The required tables are populated in the backend.	
Sample Input	Sample Output
	Tables_in_ri_db bookings members

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Input Format

Section 1 - Commands

Q1 Test Case

Input Output Field Type Null Default Extra Key employee_id int(11) NO PRI NULL first_name varchar(25) NO NULL Weightage - 100 Sample Input **Sample Output** Field Type Null Key Default Extra employee_id int(11) NO PRI NULL first_name varchar(25) NO NULL **Solution** CREATE TABLE employees (employee_id int PRIMARY KEY NOT NULL, first_name VARCHAR (25) NOT NULL, last_name VARCHAR (25) NOT NULL , email VARCHAR (25) NOT NULL , phone_number VARCHAR (20) NOT NULL , hire_date DATE NOT NULL, job_id VARCHAR (10), salary DECIMAL (8, 2) NOT NULL, commission_pct INT , manager_id INT , department_id INT); **Footer** show columns from employees; **Test Case Output** Input COLUMN_NAME TABLE_NAME CONSTRAINT_NAME tracks traid PRIMARY NULL NULL tracks artist tracks_ibfk_1 artists id Weightage - 100 Sample Input **Sample Output** TABLE_NAME COLUMN_NAME CONSTRAINT_NAME tracks traid PRIMARY NULL NULL tracks artist tracks_ibfk_1 artists id

Solution

Q2

```
CREATE TABLE tracks (
    traid integer primary key NOT NULL,
    title TEXT NOT NULL,
    artist INTEGER NOT NULL,
    FOREIGN KEY(artist) REFERENCES artists(id)
  );
Footer
   SELECT
    TABLE_NAME, COLUMN_NAME, CONSTRAINT_NAME, REFERENCED_TABLE_NAME, REFERENCED_COLUMN_NAME
  FROM
    INFORMATION_SCHEMA.KEY_COLUMN_USAGE
  WHERE TABLE_NAME = 'tracks';
      Test Case
                                                              Output
      Input
                                                                  Field
                                                                          Type
                                                                                  Null
                                                                                                  Default Extra
                                                                                          Key
                                                                  facid
                                                                          int(11) NO
                                                                                          PRI
                                                                                                  NULL
                                                                  name
                                                                          varchar(100)
                                                                                          NO
                                                                                                           NULL
      Weightage - 100
      Sample Input
                                                               Sample Output
                                                                  Field
                                                                          Type
                                                                                  Null
                                                                                          Key
                                                                                                  Default Extra
                                                                  facid
                                                                          int(11) NO
                                                                                          PRI
                                                                                                  NULL
                                                                          varchar(100)
                                                                                                           NULL
                                                                  name
                                                                                          NO
      Solution
         CREATE TABLE facilities (
             facid int primary key NOT NULL,
             name varchar(100) NOT NULL,
             membercost int NOT NULL,
             guestcost int NOT NULL,
             initialoutlay int,
             monthlymaintenance int);
      Footer
         SHOW COLUMNS FROM facilities;
      Test Case
      Input
                                                               Output
                                                                  COLUMN_NAME
                                                                  memid
                                                                  surname
```

finctnama

Q3

Q4

ample Input	Sample Output
	COLUMN_NAME memid surname finctname
olution	
ALTER TABLE members CHANGE zipcode pincode int;	
ooter	
SELECT COLUMN_NAME FROM INFORMATION_S TABLE_NAME = 'members';	SCHEMA.COLUMNS WHERE
Test Case	
Input	Output
	Tables_in_ri_db bookings members
Weightage - 100	
Sample Input	Sample Output
	Tables_in_ri_db bookings members
Solution	
DROP TABLE facilities;	
Footer	
SHOW TABLES;	