

## Referential Integrity Rules

**Note : Use Hotel System Database**

### Question 01 :

- If a hotel is deleted from the *Hotels* table, what is the appropriate behavior for the rooms belonging to that hotel? Explain which foreign key rule you would choose and why And Represent Rule

### Question 02 :

- When a room is deleted from the *Rooms* table, what should happen to the related records in *Amenities*? Which rule makes the most sense for this relationship, and why? And Represent Rule

### Question 03 :

- If a staff member's ID changes, what impact should this have on the Services they are linked to? Which update rule is most suitable? And Represent Rule

# Joining Tables

**Note : Use StackOverflow Database**

**Question 01 :**

- Write a query to display all users along with all post types

**Question 02 :**

- Write a query to retrieve all posts along with their owner's display name and reputation. Only include posts that have an owner.

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**Question 03 :**

- Write a query to show all comments with their associated post titles. Display the comment text, comment score, and post title.

**Question 04 :**

- Write a query to list all users and their badges (if any). Include users even if they don't have badges. Show display name, badge name, and badge date.

## **Question 05 :**

- Write a query to display all posts along with their comments (if any). Include posts that have no comments. Show post title, post score, comment text, and comment score.

## **Question 06 :**

- Write a query to show all votes along with their corresponding posts. Include all votes even if the post information is missing. Display vote type ID, creation date, and post title.

## **Question 07 :**

- Write a query to find all answers (posts with ParentId) along with their parent question. Show the answer title, answer score, question title, and question score.

## **Question 08 :**

- Write a query to display all related posts using the PostLinks table. Show the original post title, related post title, and link type ID.

## **Question 09 :**

- Write a query to show posts with their authors and the post type name. Display post title, author display name, author reputation, and post type.

## **Question 10 :**

- Write a query to retrieve all comments along with the post title, post author, and the commenter's display name.

## **Question 11 :**

- Write a query to display all votes with post information and vote type name. Show post title, vote type name, creation date, and bounty amount.

## **Question 12 :**

- Write a query to show all users along with their posts and comments on those posts. Include users even if they have no posts or comments. Display user name, post title, and comment text.

## **Question 13 :**

- Write a query to retrieve posts with their authors, post types, and any badges the author has earned. Show post title, author name, post type, and badge name.

## **Question 14 :**

- Write a query to create a comprehensive report showing:  
post title, post author name, author reputation, comment text,  
commenter name, vote type, and vote creation date. **Include**  
**posts even if they don't have comments or votes.** **Filter to only**  
**show posts with a score greater than 5.**

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