

# Database Orphans

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# Finding Orphans

With **LEFT JOIN**:

```
select PI.* from product_images PI LEFT OUTER JOIN products P on (P.sku = PI.sku) where P.sku is NULL
```

With **NOT EXISTS**:

```
select PI.* from product_images PI WHERE NOT EXISTS (select * from products P where P.sku = PI.sku);
```

# Deleting

With **NOT EXISTS**:

```
delete PI from product_images PI WHERE NOT EXISTS (select * from products P where P.sku = PI.sku);
```

```
delete from product_categories where category IN (select distinct category from product_categories P);
```

MySQL example:

```
delete PC from product_categories PC left join products P on PC.sku = P.sku where P.sku is NULL;
```

```
delete C from categories C left join product_categories PC on C.code = PC.category where C.parent >
```

MySQL example for multiple table update:

```
update categories C left join product_categories PC on PC.category = C.code set count = count + 1 where PC.sku = 'ACN4551';
```

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