**Soru 1: Tüm film verilerini göster(1000 veri)**

**FOR doc IN films**

**RETURN doc**

**Soru 2: Her filmdeki oyuncuları listele**

**FOR film IN films1**

**FOR filmActor IN film\_actors**

**FILTER film.film\_id == filmActor.film\_id**

**FOR actor IN actors**

**FILTER actor.actor\_id == filmActor.actor\_id**

**RETURN { "Film": film.title, "Actor": CONCAT(actor.first\_name, " ", actor.last\_name) }**

**Soru 3: Her oyuncu kaç filmde oynadı?**

**FOR actor IN actors**

**LET filmCount = (**

**FOR filmActor IN film\_actors**

**FILTER filmActor.actor\_id == actor.actor\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**RETURN { "Actor": CONCAT(actor.first\_name, " ", actor.last\_name), "Film Count": filmCount[0] }**

**Soru 4: Birden fazla DVD'yi iade etmeyen kaç müşteri var?**

**FOR customer IN customers**

**LET rentalCount = (**

**FOR rental IN rentals**

**FILTER rental.customer\_id == customer.customer\_id AND rental.return\_date == null**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**FILTER rentalCount[0] > 1**

**RETURN {"ID": customer.customer\_id, "CUSTOMER": CONCAT(customer.first\_name, " ", customer.last\_name) }**

**Soru 5: Her müşteri kaç film kiraladı?**

**FOR customer IN customers**

**LET filmCount = (**

**FOR rental IN rentals**

**FILTER rental.customer\_id == customer.customer\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**RETURN { "Customer": CONCAT(customer.first\_name, " ", customer.last\_name), "Film Count": filmCount[0] }**

**Soru 6: En çok rafta bekleyen filmler**

**FOR film IN films1**

**SORT film.rental\_duration ASC**

**RETURN { "Film": film.title, "Stock": film.rental\_duration }**

**Soru 7: Hangi müşteri en çok DVD kiralamış?**

**FOR customer IN customers**

**LET rentalCount = (**

**FOR rental IN rentals**

**FILTER rental.customer\_id == customer.customer\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**SORT rentalCount[0] DESC**

**LIMIT 1**

**RETURN { "Customer": CONCAT(customer.first\_name, " ", customer.last\_name), "Rental Count": rentalCount[0] }**

**Soru 8: En popüler film kategorisi nedir?**

**FOR category IN categories**

**LET rentalCount = (**

**FOR film\_category IN film\_categories**

**FILTER film\_category.category\_id == category.category\_id**

**FOR film IN films1**

**FILTER film\_category.film\_id == film.film\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**SORT rentalCount[0] DESC**

**LIMIT 1**

**RETURN { "Category": category.name, "Rental Count": rentalCount[0] }**

**Soru 9: Hangi çalışan en çok kiralama işlemi gerçekleştirmiş?**

**FOR staff IN staffs**

**LET rentalCount = (**

**FOR rental IN rentals**

**FILTER rental.staff\_id == staff.staff\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**SORT rentalCount[0] DESC**

**LIMIT 1**

**RETURN { "Staff": CONCAT(staff.first\_name, " ", staff.last\_name), "Rental Count": rentalCount[0] }**

**Soru 10: En çok geliri hangi film getirmiş?**

**FOR film IN films1**

**LET totalRevenue = (**

**FOR inventory IN inventories**

**FILTER inventory.film\_id == film.film\_id**

**FOR rental IN rentals**

**FILTER rental.inventory\_id == inventory.inventory\_id**

**FOR payment IN payments**

**FILTER payment.rental\_id == rental.rental\_id**

**RETURN payment.amount**

**)**

**LET revenueSum = SUM(totalRevenue)**

**FILTER revenueSum > 0**

**SORT revenueSum DESC**

**LIMIT 1**

**RETURN {**

**"Film": film.title,**

**"Revenue": revenueSum**

**}**

**Soru 11: En uzun süre kirada kalmış filmleri bulun**

**FOR film IN films1**

**LET rental\_duration = (**

**FOR inventory IN inventories**

**FILTER inventory.film\_id == film.film\_id**

**FOR rental IN rentals**

**FILTER rental.inventory\_id == inventory.inventory\_id**

**RETURN DATE\_DIFF(rental.rental\_date, rental.return\_date, "hours")**

**)**

**LET max\_rental\_duration = MAX(rental\_duration)**

**SORT max\_rental\_duration DESC**

**LIMIT 5**

**RETURN {**

**"Film": film.title,**

**"Rental Duration (Hours)": max\_rental\_duration**

**}**

**Soru 12: En az kiralanan 5 film hangileridir?**

**FOR film IN films1**

**FOR inventory IN inventories**

**FILTER inventory.film\_id == film.film\_id**

**LET rentalCount = (**

**FOR rental IN rentals**

**FILTER rental.inventory\_id == inventory.inventory\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**LET total\_rentals = FIRST(rentalCount)**

**SORT total\_rentals ASC**

**LIMIT 5**

**RETURN {**

**"Film ID": inventory.film\_id,**

**"Film Name": film.title,**

**"Rental Count": total\_rentals**

**}**

**Soru 13: En fazla kazanç sağlayan 5 müşteriyi bulun**

**FOR customer IN customers**

**LET totalPayments = (**

**FOR payment IN payments**

**FILTER payment.customer\_id == customer.customer\_id**

**RETURN payment.amount**

**)**

**LET totalAmount = SUM(totalPayments)**

**SORT totalAmount DESC**

**LIMIT 5**

**RETURN {**

**"Customer ID": customer.customer\_id,**

**"Customer Name": CONCAT(customer.first\_name, " ", customer.last\_name),**

**"Total Revenue": totalAmount**

**}**

**Soru 14: En az kiralanan 5 film hangileridir?**

**FOR film IN films1**

**LET rentalCount = (**

**FOR inventory IN inventories**

**FILTER inventory.film\_id == film.film\_id**

**FOR rental IN rentals**

**FILTER rental.inventory\_id == inventory.inventory\_id**

**COLLECT WITH COUNT INTO count**

**RETURN count**

**)**

**LET total\_rentals = SUM(rentalCount)**

**SORT total\_rentals ASC**

**LIMIT 5**

**RETURN {**

**"Film ID": film.film\_id,**

**"Film Name": film.title,**

**"Rental Count": total\_rentals**

**}**

**Soru 15: Her türde en fazla gelir sağlayan filmi bulun**

**nedir?**

**FOR category IN categories**

**LET leastRentedFilm = (**

**FOR film IN films1**

**FOR inventory IN inventories**

**FILTER inventory.film\_id == film.film\_id**

**FOR rental IN rentals**

**FILTER rental.inventory\_id == inventory.inventory\_id**

**COLLECT film\_id = film1.film\_id WITH COUNT INTO rentalCount**

**SORT rentalCount ASC**

**LIMIT 1**

**RETURN {**

**"Film": film.title,**

**"Rental Count": rentalCount**

**}**

**)**

**RETURN leastRentedFilm**

**Soru 18: En çok kiralanan film hangi mağazada kiralanmış?**

**FOR rental IN rentals**

**FOR inventory IN inventories**

**FILTER rental.inventory\_id == inventory.inventory\_id**

**COLLECT store\_id = inventory.store\_id, film\_id = inventory.film\_id WITH COUNT INTO rentalCount**

**SORT rentalCount DESC**

**LIMIT 1**

**RETURN {**

**"Store ID": store\_id,**

**"Film ID": film\_id,**

**"Rental Count": rentalCount**

**}**

**Soru 19: En çok kiralanan türdeki filmler hangileri?**

**Soru 20: En az kazanç sağlayan müşterilerin ortalama ödeme miktarı**

**FOR customer IN customers**

**LET totalPayments = (**

**FOR payment IN payments**

**FILTER payment.customer\_id == customer.customer\_id**

**RETURN payment.amount**

**)**

**LET totalAmount = SUM(totalPayments)**

**SORT totalAmount ASC**

**LIMIT 5**

**LET avgPayment = AVERAGE(totalPayments)**

**RETURN {**

**"Customer ID": customer.customer\_id,**

**"Customer Name": CONCAT(customer.first\_name, " ", customer.last\_name),**

**"Average Payment": avgPayment**

**}**